

**The Principles of the
'Mathematical Structures'
'Mathematical Analysis and Related Fields'
'Information Science and Cybernetics'
Commissions for the Evaluation of the Dissertations and the
Persons of the Applicants for the 'DSc.' Degree**

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of the 'Doctor of Sciences' Degree, and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The applicant for the 'DSc' degree must prove that he/she is a distinctive scientific personality and that his/her work has brought original scientific results that are utilised by scientists abroad or built upon in their work. The fulfilment of this requirement will be judged on the bases of studies published in reviewed foreign journals or in peer-reviewed contributions at top international conferences, citations in foreign journals, references in monographs, invitations to present lectures at international conferences, and the commissions will therefore require all of these data.

The perspectives for the evaluation of the person of the applicant include also his/her share in the development of the field, surpassing the dimension of individual research activity, particularly participation in the formulation of the conceptions and directions of research and leadership of research teams, or co-workers.

2. Required Materials for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies;
- f) the dissertation in five (5) copies;
- g) a statement of in what labour relation the dissertation was created;
- h) an expression of the applicant's own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific degree, a statement of who issued the denial decision,

the title of the original dissertation and the definition of the differences between the two dissertations.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

Curriculum Vitae

It is necessary to present the curriculum vitae in a well-arranged structured form. Besides the usual data of curriculum vitae, it is possible to present information sketching the professional profile of the applicant, in particular it is suitable to list all of the data proving both the scientific excellence of the applicant and his/her share in the creation of the concept of the research, e.g.

- the share in the creation and leadership of the work collective, scientific directions and schools,
- the share in the formulation of the research profile of the workplace,
- the merit in the application of the scientific results of the workplace, if it comes into consideration.

It is further necessary to present the data proving an active share in the life of the professional community in the field that the dissertation affects, e.g.:

- the share in the organisational work,
- scientific acknowledgment,
- work in scientific societies and editorial councils,
- activity in the councils of important scientific and development projects,
- expert activity,
- popularisation of the field,
- share in the organisation of conferences etc.,
- editorial activity,
- the most important foreign invited journeys and their contribution and further data on scientific contacts abroad.

NB: At the end of the curriculum vitae, the applicant may attach a personal *commentary* on his/her professional work and possibly further data that he/she considers to be important for the proceedings. The applicant may also state in more detail his/her own share in the joint works.

List of Publications

The applicant should be the author or co-author of at least forty (40) works in international peer-reviewed journals, or anthologies, which are registered in the Zentralblatt or Mathematical Reviews databases. Of these, at least twenty (20) must be in high-impact journals. At the beginning of the list, it is necessary to list which publications are a component of the dissertation.

The list of publications is subdivided in this way:

A. Monographs. List only scientific monographs.

B. Chapters in monographs.

C. Original scientific work. Work is subdivided into these groups:

C1 Work published in professional journals,

C2 Work published in peer-edited anthologies.

With the journals from group **C1**, it is necessary to list the impact factor if it exists after the citation.

D. Other professional work according to the applicant's consideration. The subdivision of **D1**, **D2** ... is selected by the applicant himself/herself. As examples of the items of the subdivision, we list: dissertations (rigorous */viva voce/*, candidate, doctoral, habilitation etc.), contributions in anthologies (other than **C2**),

summaries and collective references, proceedings or anthologies (editor or co-editor), research reports, translations, popularisation work, software products, user documentation for software or hardware (if it is used outside of the workplace of the applicant), expert opinions, patents, or textbook texts etc. Work of different character must be distinctly separated.

- E. Invited lectures** (*invited speaker*) according to the applicant's consideration. Only the main lectures at important international conferences etc. are listed. List the complete data on the conference and if possible also the link to the relevant citation of the contribution in the proceedings from the list of the works by the applicant.
- F. Participation in the resolution of grants** according to the applicant's consideration.

Individual items of the list are numbered always within each section **A.**, **B.**, **C.**, ..., **F.** and list the full (unabbreviated) citation. Each of the works listed is included only in one part of the division.

Citation Responses

The applicant should have at least fifty (50) proven citations in professional periodicals, peer-reviewed anthologies and monographs. The number and title of the work from the list of the publications of the applicant on which the citation response exists is always listed first. Under this item, the publications which cite it are listed in unabbreviated form. So-called self-citations (the publication is cited in work where the cited person is one of the authors) are not considered as citations. The number of cited responses are continuously numbered **[Q1]**, **[Q2]**, ... The applicant may moreover in a suitable way mark which citations are from SCI and which of his works are cited in monographs.

NB: The Commission has the possibility to evaluate in specific cases the level of the publication and the citations within the specific field and its customs and in justified cases to decide on reducing the required number.

Text of the Dissertation

If a collection of published scientific works is submitted as the dissertation, this collection must be accompanied by a sufficiently consistent unifying commentary which captures its thematic homogeneity, places it in context (both of the creation of the author and the development of the field) and facilitates orientation in the main problems and trends which the work in the submitted collection reflects.

Theses of the Dissertation

It is expected that the theses will be usually translated into English and a part devoted to an expression of the basic ideas, methods and conclusions of the dissertation will be at least fifteen (15) pages long.

Prague, 10 December 2008

Prof. RNDr. Petr Hájek, DrSc.

Chairperson of the Mathematical Structures Commission

Prof. RNDr. Michal Křížek, DrSc.

Chairperson of the Mathematical Analysis and Related Fields Commission

Prof. RNDr. Milan Mareš, DrSc.

Chairperson of the Information Science and Cybernetics Commission

Discussed and approved on 22 January 2009 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Inorganic Chemistry' Commission for the Evaluation of the Dissertations and the Persons of the Applicants for the 'DSc.' Degree

The work of the commission proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of the 'Doctor of Sciences' Degree, and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

1. The scientific degree of DSc. is understood as an individual affair of the applicant, and therefore is limited only by the framework quantitative requirements. In deciding on the acceptance of the dissertation, the commission will rely predominantly on the personal evaluation of the members of the commission, but for the successful acceptance of the dissertation the applicant should be the author or co-author of at least thirty (30) original scientific works published in international journals with an impact factor and his/her work should be referred to by at least 120 citation responses.
2. The dissertation will comprise a consistent whole providing new knowledge, a resolution of the given problem and generalising conclusions upon which scientists from other scientific workplaces build and which have contributed to general advancement. The component of the dissertation can be also research on and implementation of a unique scientific apparatus, equipment or new diagnostic methods.
3. The basic criteria for granting the degree will emphasise the contribution of the applicant to the development of the field (the applicant is a representative of new scientific stream or scientific school), his/her demonstrable scientific and publication activity and the proven response to the work. The defence as an individual affair will rely upon the individual assessment of the members of the commission.
4. The list of publications will be structured and the selected publications comprising the background material of the dissertation will be complemented by a detailed citation analysis containing references to the publications which cite his/her work. The list will further contain all of the work published in journals in the SCI database, patents, monographs and chapters in monographs, other publications in professional journals, the total number of citations excluding self-citations and contributions from significant international conferences with distinguished invited lectures published in proceedings or in electronic form.
5. The structured curriculum vitae besides the usual data in a curriculum vitae, like the data on professional work, workplace and work equipment, will contain relevant information sketching the professional profile of the applicant; none of this further information however had the character of necessary conditions. It particularly information on foreign residences, internships, guest professorships,

awards for scientific work (medals, prizes, honorary memberships, significant stipends, honorary doctorates), on the leadership of and participation in the resolution of grant projects, on scientific-pedagogical activities and guidance of doctoral candidates, on the implementation of the applicant's own scientific research, on membership in the editorial councils of international specialised journals, the organisation of international conferences etc.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies;
- f) the dissertation in five (5) copies;
- g) a statement of in what labour relation the dissertation was created;
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

- a) brief information on the possible implementations of the results of the applicant's own work
- b) brief information on the significant organisational activities in the field (organisation of international research, activity in the international evaluation commissions, etc.).

17 December 2008

Prof. Ing. Lubomír Němec, DrSc.
Chairperson of the Commission

Discussed and approved on 22 January 2009 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Physical Chemistry' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commission proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of the 'Doctor of Sciences' Degree, and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

When evaluating the scientific quality of the applicant, the commission will take also scientometric criteria into account. The applicant must normally itemise at least forty (40) publications in peer-reviewed international journals and 150 responses (with the exclusion of direct and co-authorial citations) according to the Web of Science.

1. It is possible to consider the circumstance that the applicant is the representative in the CR of a scientific stream whose introduction is connected (generally or here) with his/her name as a significant positive.
2. The applicant should be a distinctive scientific person, whose work (in the given field) is well known to the domestic and foreign specialised community.
3. This point is based on objectively evaluable data.
 - a) a list of professional publications published in impact journals; we recommend listing other works separately, e.g. monographs or patent applications. It is desirable to label works connected with the main theme of the upcoming dissertation;
 - b) objective information on the response of these works in the literature (citation index);
 - c) a list of those invitations to prestigious international meeting where the applicant was requested to give the plenary speech;
 - d) guest professorships;
 - e) honorary recognition which the author has received in the CR or abroad.It is in the interest of the applicant not to list information in the lists on activities of secondary importance.
4. A short, concise briefing (twelve to fifteen lines), on the author's results that have contributed to the enrichment of scientific knowledge, which forms the content of upcoming dissertation.
5. It is the commission's business to take into consideration also other serious factors supporting or hindering the commencement of the proceedings for the defence of the dissertation. It is impermissible to ignore the aspect of scientific ethics and morality.

2. Materials Required for the Defence:

- a) Materials listed in the 'Rules':
 - a) proof of the successful completion of university education (diploma);

- b) proof of the granting of the academic title Ph.D. or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

16 January 2009

Prof. Ing. Vladimír Mareček, DrSc.
Chairperson of the Commission

Discussed and approved on 22 January 2009 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Biochemistry, Biophysics, Molecular Biology' Commission for the Evaluation of Dissertations and the Person of the Applicant for the 'DSc.' Degree

The work of the commission proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of the 'Doctor of Sciences' Degree, and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The applicant must fulfil the criterion of an internationally recognised person in the relevant (sub)field. Then, the independence and originality of the scientific work of the applicant must be clearly apparent.

The quantifiable criteria include:

1. At least twenty (20) publication in impact journals with an IF > 1, of which the applicant must be the first or corresponding author of at least ten (10) of the articles.
2. At least 300 citations according to the ISI Web of Knowledge. The applicant must submit a list of the rate of citation of the individual works in the form of references to the publications where these works are cited.
3. Besides these criteria, the applicant must fulfil the general principles for the evaluation of an applicant for the scientific degree of 'Doctor of Sciences' and his/her dissertation valid for all of the commissions.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),

- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

20 November 2008

Prof. RNDr. Václav Pačes, DrSc.,
Chairperson of the Commission

Discussed and approved on 22 January 2009 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Material Engineering' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commission proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of the 'Doctor of Sciences' Degree, and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The applicant for the 'DSc.' degree must demonstrate that his/her work has brought original scientific results that are utilised by scientists abroad or built upon in their work. The fulfilment of this requirement will be evaluated on the basis of the works published in reviewed foreign journals or in reviewed contributions to top international conferences, citations in foreign journals, invitations to give presentations at international conferences, or other relevant data.

The commission will require at least fifty (50) publications in international impact journals among which a maximum of fifteen (15) reviewed contributions published in the proceedings of top international conferences can be included. The applicant must be shown as the first author of at least a third of the listed articles. The requested minimum number of citations of the author's published work (according to the Web of Science) is eighty (80). Although the suggested values of the scientometric criteria are generally binding, the commission reserves the right to recommend an applicant in isolated and justified cases with whom some of the criteria are fulfilled only partially or not precisely observed. The commission further requests that the applicant label at least three (3) works, but at most five (5), that he/she considers the most significant. The commission does not stipulate a minimal extent of the work submitted for the defence.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),

- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

18 December 2008

prof. Ing. Václav Sklenička, DrSc.
Chairperson of the Commission

Discussed and approved on 22 January 2009 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Physics of Condensed Systems' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commission proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of the 'Doctor of Sciences' Degree, and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

3. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The applicant for the 'DSc.' degree must demonstrate that his/her work has brought original scientific results that are utilised by scientists abroad or built upon in their work. The fulfilment of this requirement will be evaluated on the basis of the works published in reviewed foreign journals or in reviewed contributions to top international conferences, citations in foreign journals, invitations to give presentations at international conferences, and the commission therefore requests all of these data.

The applicant must normally itemise at least forty (40) publications in reviewed international journals and 150 responses (excluding direct and co-authorial citations) according to the Web of Science. The commission will further request that the applicant label at least three (3) works, but at most five (5), that he/she considers the most significant. The commission does not stipulate a minimal extent of the work submitted for the defence.

4. Materials Required for the Defence:

Materials listed in the 'Rules':

- k) proof of the successful completion of university education (diploma);
- l) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- m) a curriculum vitae with an overview of the scientific work so far;
- n) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- o) the theses of the dissertation in twenty-five (25) copies,
- p) the dissertation in five (5) copies,
- q) a statement of in what labour relation the dissertation was created,
- r) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- s) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),

t) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

28 December 2008

Ing. Vladimír Nekvasil, DrSc.
Chairperson of the Commission

Discussed and approved on 22 January 2009 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Geological Sciences' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of the 'Doctor of Sciences' Degree, and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The doctoral dissertation may be submitted in the form of an independent, original scientific work, which contained the author's contribution to the development of the relevant scientific discipline or in the form of a collection of original, published scientific works by the applicant that have significantly assisted in the advancement of the given field and is completed by an accompanying text explaining the fundamentals of the individual publications and perhaps the generally achieved results. The scientific work of the applicant must show that the applicant is in the field of geological sciences or in a field connected with it a recognised scientific person and his/her professional activity has contributed to the development of knowledge in the relevant area. The results of the work have been accepted by prestigious journals at home or abroad, evoked the corresponding response of the scientific community or were to a significant degree utilised in joint work. The applicant should prove publication activity of at least fifty (50) publications, of which at least twenty (20) were published in international professional journals with a review procedure, and with the listing of at least sixty (60) responses excluding all self-citations. In the case of publications with an authorial team, it is necessary to add the expression of the co-authors on the percentage of the contribution of the applicant. Every application must be evaluated individually taking into consideration the difficulty of the work necessary for writing an original scientific publication.

The submitted dissertation will be evaluated by at least three opponents of whom a minimum of two must be university professors or doctors of sciences. None of the opponents may be a direct supervisor or subordinate of the applicant or his/her immediate co-worker and should not be a co-author of the works submitted as a part of the dissertation.

The evaluation of the scientific person of the applicant will start from the basic criteria of the General Principles, particularly from the following background data:

- the level of publication activity and citation response
- scientific-research activity (international projects, grant success rate, applications of the results etc.)
- pedagogical activity (semester lectures at domestic or foreign schools, guidance of diploma and doctoral students, selected lectures in special courses etc.), membership in the field councils of universities
- organisational and conceptual abilities, particularly the leadership of scientific teams, stipulation of conception of the research and editorial activity, the organisation of conferences

- foreign and domestic assessment of the scientific work (honorary doctorates, medals, prizes, normal as well as honorary membership, etc.)
- membership and position in international professional, governmental and non-governmental organisations
- membership in the councils of grant agencies, scientific councils, editorial councils, etc.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

A brief abstract of the content of the work submitted of four pages in Czech and in English

An abstract of the published works that are listed in connection with the dissertation submitted

The written statement of the co-authors on the share of the applicant in creating the joint work if it is a component of the dissertation

The background materials for the utilisation of the scientometric criteria: a structured list of published works, a list of citation responses excluding self-citation of all of the co-authors, a list of invited lectures

28 January 2009

RNDr. Vladimír Rudajev, DrSc.
Chairperson of the Commission

Discussed and approved on 12.03.2009 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Geophysical Sciences' Commission for the Evaluation of Dissertations and the Person of the Applicant for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of the 'Doctor of Sciences' Degree, and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

I. General Criteria for the Evaluation of the Dissertation and Person of the Applicant

1. Dissertation

A dissertation can be considered as:

- a) an independent original work summarising and developing the author's contribution in the given scientific field.
- b) a compact collection of original, already published scientific works by the applicant connected by an accompanying text explaining the background and contribution of the published studies for the given scientific field and generalising the author's results.
- c) a component of the dissertation may be also research on and the implementation of a unique scientific apparatus or equipment or new diagnostic or otherwise universally utilisable methods.

The following cannot be submitted as the dissertation:

- a) works that were used in acquiring the scientific degree of CSc., or the Ph.D.
- b) habilitation work used for acquiring the scientific-pedagogical position of reader or associate professor (*docent*).
- c) work submitted before 31 December 2001 for acquiring the scientific degree of DrSc., which it was possible to defend successfully (with the exception of cases when it led to administrative delay uncaused by the applicant).

2. Who Qualifies as an Applicant

The applicant for the 'DSc.' degree must be a clear-cut, internationally recognised individual, whose scientific results represent an original contribution in the given scientific discipline, and who has successfully trained at least one doctoral or candidate of sciences. The commission will evaluate the person of the applicant using scientometric criteria. The publication activity of the applicant is proven by the submission of a list of at least fifty (50) publications of which at least thirty (30) have been published in international professional journals with a review procedure, and presents at least 60 citation responses excluding all self-citations. In the case of publications with an authorial team, it is necessary to add a statement by the co-authors on the percentage share of the applicant.

Also other information completing the person of the applicant like awards of the scientific work of the applicant (invited lectures abroad, awards, honorary doctorates, medals, honorary memberships) will be taken into account, i.e. whether the applicant has been the investigator of domestic or international grants or projects, the organisation of scientific conferences, membership in the editorial council of

international journals, activity in the bodies of international scientific organisations, long-term scientific internship abroad, implementation of the results of scientific examination in work and so on. All of these facts are attested by the applicant in his/her scientific curriculum vitae.

3. Selection of Opponents

The submitted dissertation will be evaluated by at least three opponents. A minimum of two of the opponents must be professors or doctors of sciences. None of the opponents may be a direct supervisor or subordinate of the applicant or his/her immediate co-worker and should not be a co-author of the works submitted as a part of the dissertation.

4. Co-Authorship

Should the applicant submit as the dissertation a collection of published works of which some were published with co-authors, he/she must mark in commentaries his/her share and attach a statement by the co-authors who confirm the authorship of the applicant in the marked parts and evaluate his/her share in the results achieved.

II. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials: (here it is possible to name the materials complementing the basic requirements shown above, according to the decision of the commission.

- k) a full and synoptic list of the citation responses to the works of the applicant,
- l) a written statement and confirmation by the co-authors of the share of the applicant in the creation of the joint work, if this forms the background material of the dissertation (see h),
- m) further information that the applicant considers appropriate to share with the Commission in connection with the defence of the dissertation (if it was not already listed in the curriculum vitae)

13 February 2009

RNDr. Vladimír Čermák, DrSc.
Chairperson of the Commission

Discussed and approved on 12.03.2009 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Botany and Physiology of Plants' Commission for the Evaluation of Dissertations and the Person of the Applicant for the 'DSc.' Degree

The work of the commission proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertation and Person of the Applicant

The dissertation will be evaluated according to the character of the subject matter: whether it is scientific work of a 'laboratory' character (physiology and genetics of plants) or 'field' character (vegetation ecology and systematic botany).

In the areas of the genetics and physiology of plants, the requirement is at least forty (40) original publications in impact international journals. The items evaluated include whether the dissertation's author is the first or corresponding author and whether it arises from the articles that the dissertation author is the leading person of the projects and submitted studies. In the area of citations, at least 150 citations are required without self-citation. Great emphasis shall be placed on the overall value of the impact factor and the value of the Hirsch index. Alongside these currently recognised scientometric criteria, each dissertation will always be evaluated individually. Besides the actual dissertation and the presentation, its internationally recognised importance as a fundamental contribution for the field, considered pedagogical activity, number of defended Ph.D.s, students, scientific organisational activity, membership in international organisation, number of patents, etc. will be evaluated during the defence.

With applicants in the area of vegetation ecology and systematic botany, not only the currently recognised scientometric criteria (a minimum of twenty /20/ impact articles, their citations, the impact factors of the relevant journals, the Hirsch index) will be considered but also synthetic works (monographs or comprehensive collections of articles) based on long-term field or experimental studies of the selected taxa, ecosystems or phytogeographical regions, hence the works cited in the world's literature only after a longer time interval. Each of the applicants for the granting of the DSc. degree will be evaluated individually. At the same time, the pedagogical activity of the applicant, the number of his/her students who defend his/her Ph.D., activity in scientific organisations, active membership in international organisations etc. will be considered.

The course of the proceedings of the defence (selection of opponents, the actual defence, writing of the protocol) in the area of the physiology of plants and genetics will be entrusted to the Chairperson of the Commission, whereas

the course of the proceedings of dissertations in the area of vegetation ecology and systematic botany will be entrusted to the Vice-Chairperson of the Commission, who is responsible for the area of vegetation ecology and systematic botany.

2. Materials Required for the Defence:

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules'), with an IF and citations (without self-citations);
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

- a) a list of the other publications for the applicant for the DSc. degree that are not a part of the dissertation, with the IF and citations (without self-citations).

Please send the materials under letters **c, d, e, h, i** and **k** also in electronic form.

In Prague, 8 March 2008

RNDr. Tomáš Gichner, DrSc.
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Ecological Biology' Commission for the Evaluation of Dissertations and the Person of the Applicant for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertation and Person of the Applicant

The applicant applies a multidisciplinary approach in solving problems and is an internationally recognised expert in it. He/she has at least thirty (30) publications in international journals with an aggregate IF>20 and a number of responses according to the SCI of at least 100 (without self-citation). These criteria are evaluated individually with consideration of the specifics of the given field (e.g. the IF of the relevant cluster of journals) and with consideration for the creative contribution of the author in the publications. The significance of the role of the applicant in the team of co-workers (co-authors) is evaluated on the basis of doctoral students trained, management of grants, participation in international projects and organisation of international meetings.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

- a) a list of doctoral candidates guided, grants managed and working groups led, international projects participated in and conferences organised.
- b) the commission recommends at least one opponent from abroad. If the work reaches into several fields, it recommends the representation of the corresponding specialists among the opponents.

3 March 2008

RNDr Viera Straškrábová DrSc.
Chairperson of the Committee

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Legal Science' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The dissertation is in Czech and at least 200 printed pages in length.

In the theses of the dissertation, it is necessary to provide a list of his/her scientific works that are the background material of the dissertation as well as a list of the other publications by the author. A component of the theses of the dissertation is a résumé (at most two pages in length) in and Czech and English, possibly in another world language.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

If there was a review published of the dissertation, it must also be attached.

10 March 2008

prof. JUDr. Pavel Šturma, DrSc.
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Archaeology' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

1. **The applicant** for acquiring the scientific degree of 'DSc.' must be a distinctive person, respected by the domestic and foreign scientific communities, who is a model both in scientific features and in moral aspects.

2. The condition for the granting of the scientific degree of 'DSc.', is the successful defence of the **dissertation** in the proceedings for the granting of this degree. The dissertation is understood to be:

a) **original published scientific monograph**, which solves a serious scientific problem and brings a fundamentally new significant scientific discovery, or exceptionally:

b) a weighty and precisely specified co-authorial share in extensive scientific collective monographs, possibly entirely exceptionally:

c) a collection of published scientific works complemented by a commentary.

The dissertation may not be works which have already been used in the defence of other academic or pedagogical scientific degrees. Works of the type of archaeological fontes, catalogues, textbooks etc. may not be considered as the dissertation.

3. The expectation for the **commencement of the proceedings** is:

- at least one already published scientific monograph besides the one defended

- at least forty (40) significant treatises published in scientific, if possible reviewed journals and anthologies, of which a part published abroad, with positive reviews and if possible recorded citation responses at home and abroad.

- for the evaluation of the responses to the existing scientific work by the applicant, the use of scientometric criteria is not ruled out.

4. The **bibliography** of the applicant must be structured in the following way:

A Scientific monographs

B Chapters in scientific monographs

C Articles in important professional journals issued abroad

D Articles in important professional journals issued in the CR

E Articles in important professional anthologies issued abroad

F Articles in important professional anthologies issued in the CR

G Other specialised works (e.g. dissertations, contributions in other journals and anthologies, editorial and popularisation work, textbooks etc. – structure the list)

H Review and according to possibilities also recorded citation responses to the applicant's work

5. A structured **curriculum vitae** includes scientific work, grants issued, foreign internships and journeys, awards, and particularly also the applicant's pedagogical activity including the guidance of doctoral candidates, lecture activity etc.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

14 March 2008

PhDr. Ivan Pavlů, DrSc.
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'General and Czech History' Commission for the Evaluation of Dissertations and the Person of the Applicant for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The dissertation is understood to be an original scientific text of at least 400 pages in length in one of the following forms:

- a) a published monograph
- b) a collection of published works of a monothematic focus with proven foreign responses
- c) an extensive collective monograph with extraordinarily important and precisely specified co-authorial share
- d) a source edition with a fundamental scientific study as the introduction which will be the subject of the defence

Inter alia, the commission will evaluate the engagement of the applicant in the resolution of research plans, grant projects, projects of the EU and his/her share in university education and the guidance of doctoral candidates.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),

- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

Supplementary documentation for the dissertation submitted which is a prerequisite for the commencement of the proceedings

a) at least two monographs

b) a bibliography of at least forty (40) studies in scientific journals and anthologies with a special emphasis on studies in reviewed periodicals, of which a part has been published abroad

c) at least ten (10) weighty scientific reviews

d) a structured list of publications. The list is structured in the following way:

A. Monographs.

B. Chapters in monographs.

C. Original scientific works.

C1 Works published in professional journals issued abroad

C2 Works published in professional journals issued in the Czech Republic

C3 Works published in reviewed anthologies issued abroad

C4 Works published in reviewed anthologies issued in the Czech Republic

With journals from group **C1** (or **C2**), the impact factor if it exists can be listed after the citation.

D. Other specialised works according to the consideration of the applicant (e.g. dissertations (rigorous *viva voce*), candidate, doctoral, habilitation etc.), contributions in anthologies (besides **C3**, **C4**), synopses and collective abstracts, anthologies (editor or co-editor), translations of popularisation works, textbook texts etc. Works of various character should be distinctly differentiated.

E. Invited lectures (*invited speaker*) according to the consideration of the applicant. Only the main lectures at important international congresses, conferences etc. are listed. Provide the full data on the conferences and if possible also a reference to the relevant citation of the contribution in the proceedings from the list of works by the applicant.

F. Review responses of the dissertation publications with a special emphasis on the foreign review responses.

8 February 2008

prof. PhDr. Eva Semotanová, DrSc.
Chairperson of the
Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the Oriental Studies - Combination Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

1. General Criteria

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

A free part defined by the commission according to the specifics of the field is given in the relevant internal norm of the ASCR (<http://www.avcr.cz/data/vzdelavani/dsc/IN06-08.pdf>, Article 1, Sections 2 and 4).

2. The Principles of the Evaluation of the Dissertations and Persons of the Applicants

The applicant for the scientific degree DSc. must demonstrate that he/she is a distinctive scientific person, respects the principles of the ethics of scientific work and his/her work has brought original scientific results, that are utilised by scientists abroad or built upon in their work. The fulfilment of this requirement will be judged on the bases of studies published in reviewed foreign journals or in peer-reviewed contributions at top international conferences, citations in foreign journals, references in monographs, invitations to present lectures at international conferences, etc.

The perspectives for evaluating the persons, besides the integrity of his/her character and the observance of the principles of the ethics of scientific work, also include his/her share in the development of the field surpassing the dimension of individual research activity, particularly participation in the formulation of the concepts and directions of the research and management of research teams, or co-workers, and his/her share in university instruction and the guidance of doctoral candidates.

A prerequisite for the granting of the DSc. degree is a distinctive scientific work, which is a significant contribution to the field and as such is accepted on the international scale.

A condition for acquiring the scientific degree of DSc. is the successful defence of the dissertation in the proceedings for granting this degree.

The dissertation is understood to be: a) an original, published scientific monograph, which solves a serious scientific problem and brings a fundamentally new scientific discovery,

or exceptionally b) a collection of published works of a monothematic focus with proven foreign responses complemented with a commentary of fundamental scientific importance,

c) an extensive collective monograph with extraordinarily important and precisely specified co-authorial share (if possible with precisely defined chapters)

d) a source edition with a fundamental scientific study as the introduction which will be the subject of the defence.

The dissertation may not be a work which has already been used for the defence of an academic or other scientific-pedagogical degree (PhDr., CSc., Dr. PhD.), was the background material for a habilitation proceedings, etc.

The dissertation has a length of at least 200 normed pages. In the theses on it (in twenty-five /25/ copies), it is necessary to provide a list of one's scientific works, which are the background material for the dissertation and a list of the other publications by the author. A component of the dissertation is the résumé (at most two pages in length) in Czech and English, possibly in another world language.

3. Materials Required for the Defence:

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far (a structured curriculum vitae includes scientific work, grants awarded, foreign internships and journeys, and particularly also the applicant's lecture activity, or pedagogical activity),
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4 of *The Rules for Granting the Scientific Degree of 'Doctor of Sciences' at the ASCR*, the above-mentioned norm),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

4. The following supplementary materials:

The bibliography contains a minimum of forty (40) studies in scientific journals and anthologies, of which a part has been published abroad. The list is structured in the following way:

- A. Scientific monographs
- B. Chapters in scientific monographs
- C. Articles in important professional journals or anthologies issued abroad
- D. Articles in important professional journals or anthologies issued in the CR
- E. Other professional works according to the consideration of the applicant (e.g. rigorous */viva voce/*, candidate, doctoral, habilitation etc.)
- F. Editorial or co-editorial works, translations, commentaries, textbook texts, etc.
- G. Invited lectures at important international congresses, conferences etc.
- H. Review responses of the dissertation publications with special emphasis on foreign review responses.

Prague and Pilsen, 3 May 2010

Josef Kolmaš
Vice-Chairperson of the Commission

Petr Charvát
Chairperson of the Commission

Discussed and approved on 6 May 2010 by the Panel for the 'Doctor of Sciences' Degree.

prof. Ing. Karel Ulbrich, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Psychology' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

1. Doctoral Dissertation

The doctoral dissertation can be considered as:

- a) an independent, original work summarising and developing the author's contribution in the given scientific field.
- b) a comprehensive collection of original, already published scientific works by the applicant joined with an accompanying text, explaining the essence and the contribution of the published studies for the given scientific field and generalising the author's results.
- c) a component of the dissertation may be also research on and implementation of a unique scientific apparatus or equipment or new diagnostic or otherwise universally applicable methods.

It is not permissible to present as the doctoral dissertation work that has been used for acquiring another scientific or scientific-pedagogical degree, e.g. the CSc., Ph.D. degree of the title of university associate professor or reader (*docent*).

2. Who Qualifies as an Applicant

The applicant for the 'DSc' degree must prove that he/she is a distinctive scientific personality and that his/her work has brought original scientific results that are utilised by scientists abroad or built upon in their work. The fulfilment of this requirement will be judged on the bases of studies published in reviewed foreign journals or in peer-reviewed contributions at top international conferences, citations in foreign journals, references in monographs, invitations to present lectures at international conferences, and the commission will therefore require all of these data.

The perspectives for the evaluation of the person of the applicant include also his/her share in the development of the field, surpassing the dimension of individual research activity, particularly participation in the formulation of the conceptions and directions of research and leadership of research teams, or co-workers.

Also other information completing the person of the applicant like awards of the scientific work of the applicant (awards, honorary doctorates, medals, honorary memberships) will be taken into account, i.e. whether the applicant has been the investigator of domestic or international grants or projects, the organisation of scientific conferences, membership in the editorial council of international journals, activity in the bodies of international scientific organisations, long-term scientific internship abroad, implementation of the results of scientific examination in work and so on. All of these facts are attested by the applicant in his/her scientific curriculum

vitae.

It is generally assumed that the applicant should be the author of at least thirty (30) original works in impact or reviewed international journals with at least 100 proven citation responses (excluding self-citations) while a minimum of fifty (50) of these responses will be listed in one of the international bibliographic and citation databases, namely Web of Knowledge or Scopus.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic title Ph.D. or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far containing particularly:
 - personal data
 - data on studies and education achieved
 - professional development, category
 - foreign residences and internships longer than two (2) months (with the position labelled, e.g. post-doc, visiting professor and so on)
 - list of grant projects investigated with which the applicant is or was the principal investigator or co-investigator (since 1992) (Name of the project, Grant Agency/Science Foundation or sponsor, project number, length of the project and the total amount of financial support for the team led by the applicant)
 - pedagogical activity (lecture courses at universities, foreign universities, guidance of diploma theses and doctoral candidates, etc.)
 - membership in the editorial councils of professional journals
 - honours and other awards of the scientific work
 - further materials allowing judgement of the scientific and pedagogical activity of the applicant;
- d) a list of the publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies;
- f) the dissertation in five (5) copies;
- g) a statement of in what labour relation the dissertation was created;
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

- An abstract two pages in length at maximum emphasising the originality and main contribution of the submitted collection of works for the development of the field.
- A structured list of publications. The list is structured in the following way:
 - Monographs.

- Chapter in monographs.
 - Original scientific works:
 - **C1** Works published in professional journals issued abroad
 - **C2** Works published in professional journals issued in the Czech Republic
 - **C3** Works published in reviewed anthologies issued abroad
 - **C4** Works published in reviewed anthologies issued in the Czech Republic
- With journals from group **C1** (or **C2**), the impact factor if it exists can be listed after the citation.
- Other specialised works according to the consideration of the applicant (e.g. dissertations (rigorous *viva voce*), candidate, doctoral, habilitation etc.), contributions in anthologies (besides C3, C4), synopses and collective abstracts, anthologies (editor or co-editor), translations of popularisation works, textbook texts etc. Works of various character should be distinctly differentiated.
 - Invited lectures (*invited speaker*) according to the consideration of the applicant. Only the main lectures at important international congresses, conferences etc. are listed. Provide the full data on the conferences and if possible also a reference to the relevant citation of the contribution in the proceedings from the list of works by the applicant.
 - Review responses of the dissertation publications with a special emphasis on the foreign review responses.

4 September 2008

Prof. PhDr. Marek Blatný, CSc.
Entrusted with the Proceedings of the Committee

Discussed and approved on 15 October 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Czech Language' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

1. The applicant for acquiring the scientific degree of 'DSc.' should be a distinctive scientific person, whose work (in the given field) is well known to the domestic and foreign specialised community.

2. A condition for granting the scientific degree of 'DSc.' is the successful defence of the dissertation. The dissertation must be an original scientific text (not e.g. a textbook text), which in an original way solves a topical and serious problem of the field (or his/her specific specialisation) and also has a generally linguistic or methodological character. It may not be a work that has already been used for acquiring another academic or scientific-pedagogical degree. The dissertation is understood to be:

a) an already issued book monograph

b) a weighty and precise specified share (co-authorial) in an extensive collective monograph

c) in an exceptional case, a collection of published works of a monothematic focus with proven foreign responses complemented with a commentary

d) an already issued extensive lexicographic work, possibly a weighty and precisely specified share in a significant collective lexicographic work

e) in an exceptional case, a source edition with a fundamental scientific study as the introduction which will be the subject of the defence

3. The prerequisite for the commencement of proceedings is:

a) at least one already-published scientific book monograph (besides the defended one)

b) at least forty (40) significant studies or treatises published in scientific journals and anthologies (if possible reviewed, at least partially foreign)

4. The documentation submitted by the applicant must contain

a) a structured curriculum vita, which includes i.a. the pedagogical activity of the applicant including the guidance of doctoral candidates, lecture activity (mainly invited lectures of the 'invited speaker' type at important international events), etc.

b) a list of publications with this structure:

A Scientific monographs

B Chapters in scientific monographs

C 1 Articles published in professional journals issued abroad

C 2 Articles published in professional journals issued in the Czech Republic

C 3 Articles published in important professional anthologies issued abroad

C 4 Articles published in important professional anthologies issued in the Czech Republic

D Other professional work according to the consideration of the applicant (e.g. dissertations, contributions in further journals and anthologies, editorial and popularisation work, translations, textbook texts, summarising abstracts and reviews; the list should be structured by type of publication)

E A list of reviewed and according to possibilities also recorded citation responses (domestic and foreign) to the work of the applicant

With journal articles, it is possible to list the impact factor also of the responses; when evaluating the applicant, the specialised commission does not exclude the use of scientometric criteria.

2. Further Materials Required for the Defence and Listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) the theses of the dissertation in twenty-five (25) copies;
- d) the dissertation in five (5) copies;
- e) a statement of in what labour relation the dissertation was created;
- f) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
- g) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
- h) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

7 February 2008

Doc. PhDr. Jana Hoffmannová, DrSc.
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Nuclear, Subnuclear and Mathematical Physics' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The number and quality of the publications is considered as a basic indicator of the quality of the applicant. Forty to sixty (40–60) quality publications (articles in reviewed international journals with an IF, monographs, chapters in monographs) is a minimum requirement. The above-mentioned interval expresses the differences between the publication activity in the experimental (40) and theoretical (60) fields, the number of co-authors and share of the applicant in the publications. In the case of collective works, a written statement of the co-authors or the head of the collaboration on the share of the applicant is requested.

Further significant facts for evaluating the quality of the applicant are:

- Significant contribution to the existing research themes, to the emergence of a prospective research direction or founding a new direction
- Ability to organise scientific work, propose and implement research programmes
- Position in international research projects and collaborations
- Activity in scientific organisations, programme committees of international conferences, editorial councils of journals
- Invited lectures at important conferences and schools
- Activity in university instruction and the scientific education of students
- Significant popularisation activity

2. Materials Required for the Defence:

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of the publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules'),
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),

- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

15 July 2008

V. Hnatowicz
Chairperson of the Commission

Discussed and approved on 15 October 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Astronomy and Astrophysics' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

1. Doctoral Dissertation

The doctoral dissertation can be considered as:

- a) an independent, original work summarising and developing the author's contribution in the given scientific field.
- b) a comprehensive collection of original, already published scientific works by the applicant joined with an accompanying text, explaining the essence and the contribution of the published studies for the given scientific field and generalising the author's results.
- c) a component of the dissertation may be also research on and implementation of a unique scientific apparatus or equipment or new diagnostic or otherwise universally applicable methods.

It is not permissible to present as the doctoral dissertation work that has been used for acquiring another scientific or scientific-pedagogical degree, e.g. the CSc., Ph.D. degree of the title of university associate professor or reader (*docent*).

2. Who Qualifies as an Applicant

The applicant for the 'DSc.' degree must be a distinctive, internationally recognised person whose scientific results represent an original contribution in the given scientific discipline, and he has successfully trained at least one doctoral candidate or candidate of sciences. The commission will evaluate the person of the applicant using scientometric criteria (a list of published works, invited lectures at international conferences, citation response to the work listed excluding all self-citation by the author's collective*). For the acceptance of the work for the defence, it is necessary to prove at least fifty (50) citation responses as evidence of the applicant's scientific recognition.

Also other information completing the person of the applicant like awards of the scientific work of the applicant (invited lectures abroad, awards, honorary doctorates, medals, honorary memberships) will be taken into account, i.e. whether the applicant has been the investigator of domestic or international grants or projects, the organisation of scientific conferences, membership in the editorial council of

international journals, activity in the bodies of international scientific organisations, long-term scientific internship abroad, implementation of the results of scientific examination in work and so on. All of these facts are attested by the applicant in his/her scientific curriculum vitae.

*) Self-citation is such a citation where the intersection of the sets of the authors of the article cited and citing the article is not an empty set.

3. Selection of Opponents

The submitted dissertation will be evaluated by at least three opponents. A minimum of two of the opponents must be professors or doctors of sciences. None of the opponents may be a direct supervisor or subordinate of the applicant or his/her immediate co-worker and should not be a co-author of the works submitted as a part of the dissertation.

4. Co-Authorship

Should the applicant submit as the dissertation a collection of published works of which some were published with co-authors, he/she must mark in commentaries his/her share and attach a statement by the co-authors who confirm the authorship of the applicant in the marked parts and evaluate his/her share in the results achieved.

2. Materials Required for the Defence:

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

The commission may request even further supplementary materials (e.g. in the case I.1.c).

14 March 2008

prof. RNDr. Jan Palouš, DrSc.
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Analytical Chemistry' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of the publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies;
- f) the dissertation in five (5) copies;
- g) a statement of in what labour relation the dissertation was created;
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

2. General Criteria for the Evaluation of the Dissertation and Person of the Applicant

The background materials submitted will be evaluated (Art. III, Section 8) according to Art. III, Section 5 of the Rules. We recommend that the applicant submit at the same time as the material for the panel (according to the 'Rules') also an electronic version of his/her curriculum vitae, which would also be delivered to the chairperson of the commission.

All quantitative criteria are orientational and auxiliary values for the work of the commission (regulating the subject matter), whose members must fulfil the requirements of the highest scientific qualifications. We will evaluate each application individually and weigh all of the pros and cons. It will be indispensable to bear in mind also the length of time of activity in the science so as not to eliminate younger colleagues and their career paths with excessive strictness on numbers.

The principles of the evaluation of the background materials according to the articles of the Rules:

5c) curriculum vitae

The person of the applicant will be evaluated on the basis of a structured curriculum vitae, containing the **material** facts that characterise all of the aspects of his/her professional activities. Besides the usual data of curriculum vitae and the data on professional practice, workplace and work position, information filling in the professional profile of the applicant is presented in it, for instance:

- The foreign and domestic awards of the scientific work of the applicant (medals, prizes, honorary membership, honorary doctorates);
- Participation in the resolution of grants (the applicant is or has been the investigator of his/her own grant or a co-investigator of a grant from the Czech Science Foundation, Ministry of Health of the CR, ASCR or a foreign grant);
- Invited plenary speeches at important international conferences;
- **The training of doctoral candidates, scientific-pedagogical activity;**
- The implementation of the results of one's own scientific research (especially in connection with the submitted work), the resolution of serious technical problems in a significant technical work, patents, licences, the sale of know-how (technologies, mathematical models, program kit), the introduction of an important innovation into production etc.;
- Membership in the editorial councils of international professional journals;
- The organisation of international conferences;
- Scientific--organisational activity - membership in the bodies of international scientific organisations.

None of the mentioned items has the character of a necessary condition.

5d) a list of all of the original scientific works with the data on the rate of citation of these works

The quantitative evaluation of this background material must be taken as orientational for an idea of the professional level of the applicant and in connection with the activities listed in the curriculum vitae. The commission anticipates the fulfilment of the following quantitative criteria:

Over forty (40) impact, original publications

Over 200 citations without self-citations

Over thirty (30) impact points with corrections for co-authorship

5 e,f) the dissertation, theses of the dissertation

will be evaluated in further proceedings for whose commencement the following will be judged:

- pertinence to the commission
- basic features of the dissertation
 - form according to the Rules;
 - execution – at least in a ring binder;
 - length - a minimum of thirty (30) pages on A4 paper not including pictures or graphs, tables and appendices;
 - the dissertation and theses of the dissertation may be submitted in English;
 - the dissertation should treat a thematically compact field;

- the author's publication forming the base of the dissertation should be among his/her most valuable and indisputably leading contributions.

5g) statement of how the dissertation was created, its usage

also the author's contribution and setting will be judged in terms of the potential importance and significance for the field

5h) statement of one's own scientific contribution and share of the work

the author's own view is documented also by the quantitative facts like whether the applicant is the first author or senior author of the publications forming the basis of the dissertation

5i) recommending position

It is necessary to exclude any possible partiality.

For the small scientific scope in the CR, the omission recommends foreign specialists.

As one of the opponents, a foreign expert will be proposed; if he/she is present, the presentation of the dissertation will be in English.

12 March 2008

Doc. RNDr. Karel Šlais DrSc.
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the Commission for the Field of Electrotechnics, Electronics and Photonics for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The applicant for the scientific degree of DSc. must demonstrate that is/her scientific work has brought original scientific results that are utilised by scientists from the international scientific community or built upon in their work. The fulfilment of this requirement will be judged on the bases of studies published in impact foreign journals, their citations, invitations to present lectures at international conferences, foreign institutes and other scientific events. For this reason, the commission prefers the form of a dissertation comprised of a collection of published scientific works accompanied by a commentary (Point 2b, Section III of the 'Rules'). Considering the thematic breadth of the field, the commission does not set uniform minimum limits of the scientometric data; the value of these parameters is judged by the commission for each of the applicants individually on the basis of its own analysis. At the same time, it arises predominantly from the data in the database of the Web of Science, or Scopus.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies;
- f) the dissertation in five (5) copies;
- g) a statement of in what labour relation the dissertation was created;
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

As a specific elaboration of the requirements of the Rules, the commission requests that:

- a) the applicant at the time of the submission of the application be the author or co-author of at least twenty (20) works in scientific journals registered in the Thomson Reuters Web of Science database and reached a value of the h-factor listed in the same database of at least 5 and
- b) that the written opinions of at least two doctors of sciences or professors as per Point i) came from internationally recognised scientists, preferably from foreign workplaces of countries with advanced science in the field of the dissertations; the authors of these opinions may not be co-authors of publication in which the dissertation is based.

15 October 2008

Prof. Ing. Jiří Čtyroký, DrSc.,
Chairperson of the Commission

Discussed and approved on 15 October 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Genetics and Genomics' and 'Immunology' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The applicant must fulfil the criterion of an internationally recognised person in the relevant (sub)field. At the same time, the independence and originality of the scientific work of the applicant must be clearly evident. It is usually an adequate form of foreign cooperation in the resolution of the applicant's problem and the presentation of a part of the results of the applicant's work in the form of a synoptic article in a quality international journal, or in the forms of a monograph or a chapter in it.

The quantifiable criteria include:

1. At least twenty (20) publications in impact journals with an IF > 1, of which the applicant must be the corresponding author in at least ten (10) articles;
2. At least 300 citations according to the ISI Web of Knowledge. The applicant must submit a list of the rate of citation of the individual works in the form of references to the publication where these works are cited;
3. The applicant must be (or have been) the investigator of at least two of his/her own grants of the Czech Science Foundation, the Grant Agency of the AS, the MEYS or foreign grants;
4. The applicant must be the advisor of at least one doctoral candidate of his/her own who successfully defended his/her dissertation;
5. Besides these criteria, the applicant must fulfil the general principles for the evaluation of an applicant for the scientific degree of 'Doctor of Sciences' and his/her dissertation must be valid for all of the commissions.

2. Materials Required for the Defence:

- a) Materials listed in the 'Rules':
- a) proof of the successful completion of university education (diploma);
 - b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
 - c) a curriculum vitae with an overview of the scientific work so far;

- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

20 March 2008

Prof. MUDr. Jiří Forejt, DrSc.,
Chairperson of the Genetics and Genomics Commission

prof. MUDr. Helena Tlaskalová, DrSc.
Chairperson of the Immunology Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Macromolecular Chemistry' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

For the proceedings, dissertations will only be accepted from applicants that have demonstrated that they are a distinctive scientific person in one of the fields of macromolecular chemistry or physical chemistry and polymer physics, or in the interdisciplinary areas of macromolecular sciences arising from or closely related to it and whose work is a thematically compact collection of original scientific results significantly contributing to the development of learning in the relevant area of macromolecular science.

The applicant must be a distinctive scientific person, manifesting an ability to produce original, material and coherent scientific results, creating in his/her field of professional activity an independent and recognised direction. The applicant should normally be the author or co-author of at least fifty (50) original scientific works published in international professional journals with a review procedure with a total number of at least 200 responses according to the SCI (with the exclusion of all types of self-citations) and should be the bearer of his/her own grants issued by the Czech Science Foundation, Grant Agency of the ASCR, ministries of the CR or foreign institutions. The criteria that the commission will evaluate include also the ability to train young scientific employees (at least one scientific employee with a Ph.D. (or equivalent degree) as well as further professional activity like membership in the editorial councils of journals, patent and implementation activities, popularisation activity etc.

The commission recommends the elaboration of the dissertation in English, but it is not a necessary condition.

2. Materials Required for the Defence (listed in the 'Rules'):

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic title Ph.D. or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far containing particularly:
 - personal data
 - data on studies and education achieved
 - professional development, category
 - foreign residences and internships longer than two (2) months (with the position labelled, e.g. post-doc, visiting professor and so on)

- pedagogical activity (lecture courses at universities, foreign universities, guidance of diploma candidates, doctoral candidates etc.)
 - membership in the editorial councils of professional journals
 - honours and other awards of the scientific work
 - further materials allowing judgement of the scientific and pedagogical activity of the applicant.
- d) the list of the publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
 - e) the theses of the dissertation in twenty-five (25) copies;
 - f) the dissertation in five (5) copies;
 - g) a statement of in what labour relation the dissertation was created;
 - h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
 - i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
 - j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

- An abstract of the dissertation two pages in length at maximum emphasising the originality and main contribution of the submitted collection of works for the development of the field;
- A list of invited and other lectures presented by the applicant at international and national conferences (with the subdivision: invited lectures at international conferences, invited lectures at national conferences, other lectures presented by the applicant at international conferences, other presentations with published abstracts);
- A list of patents marking those that have been implemented;
- A list of grant projects investigated with which the applicant is or was the principal investigator or co-investigator (since 1992) (Name of the project, Grant Agency/Science Foundation or sponsor, project number, length of the project and the total amount of financial support for the team led by the applicant).

8 February 2008

Prof. Ing. Karel Ulbrich, DrSc.,
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'History and Theory of Art' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertation and Person of the Applicant.

The applicant for the scientific degree of DSc. must demonstrate that he/she is a distinctive scientific person and that his/her work has brought original scientific results that are utilised by scientists abroad or built upon in their work. The fulfilment of this requirement will be judged on the bases of studies published in reviewed foreign journals or in peer-reviewed contributions at top international conferences, citations in foreign journals, references in monographs and scientific anthologies, invitations to present lectures at international conferences. The commission will therefore require all of these data.

The perspectives for evaluating the person of the applicant includes also his/her share in the development of the field surpassing the individual scientific activities, particularly participation in the formulation of the conceptions and directions of research and leadership of research teams or co-workers. The commission i.a. evaluates the engagement of the applicant in the investigation of research plans, grants and his/her share in university instruction and guidance of doctoral candidates.

A prerequisite of the granting of the DSc. degree is an outstanding scientific work that is a significant contribution to the field and also as such is accepted on the international scale.

The condition for the granting of the scientific degree of DSc. is the successful defence of a dissertation within the proceedings for the granting of this degree. The dissertation is understood to be:

- a) *an original published scientific monograph*, which resolves a weighty scientific problem and brings a new, important scientific discovery, or exceptionally:
- b) *a collection of published scientific works of an monothematic focus* with proven foreign responses, accompanied by a commentary of fundamental scientific importance.

The doctoral dissertation may not be a work that has been used for defending another scientific or scientific-pedagogical degree, e.g. the CSc., Ph.D. or Dr. or was the background material of the habilitation proceedings.

The dissertation is to be at least 200 printed pages in length.

In the theses of the dissertation, it is necessary to provide a list of the applicant's scientific works that are the basis of the dissertation and a list of the other publications by the author. A component of the theses of the dissertation is a résumé (at most two pages in length) in Czech and English, possibly another world language.

The prerequisite for the commencement of the proceedings is:

- at least one already published scientific monograph, besides the one defended
- at least forty (40) significant treatises published in scientific, if possible reviewed journals and anthologies, a part of which issued abroad, with positive reviews and if possible the citation responses at home and abroad recorded.

2. Materials Required for the Defence:

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Besides the above-mentioned materials, the commission requires the presentation of the following supplementary materials:

A bibliography containing at least forty (40) studies in scientific journals and proceedings, of which a part has been published abroad. The list is structured in the following way:

A Scientific monographs

B Chapters in scientific monographs

C Articles in important professional journals issued abroad

D Articles in important professional journals issued in the CR

E Articles in important professional anthologies issued abroad

F Articles in important professional anthologies issued in the CR

G Other professional works (e.g. dissertations, contributions in other journals and anthologies, editorial and popularisation work, textbooks, etc. – the list should be structured)

H Review and according to the possibilities recorded citation responses to the applicant's work

12 June 2008

Prof. PhDr. Jiří Kuthan, DrSc.
Chairperson of the Commission

Discussed and approved on 15 October 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Mechanics of Fluids, Thermomechanics, Hydrology and Water Management' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

In the evaluation of the requests of the applicants for the scientific degree of 'Doctor of Sciences' (abbreviated as DSc.), the Commission is governed by the Guidelines of the Academic Council of the ASCR No. 3 'Rules for the Granting of the Scientific Degree *Doctor of Sciences* in the Academy of Sciences of the CR' (Internal norm part 8/2006, issued by the Head Office of the ASCR, reference No. K-2143/VR/06, from 5 December 2006) and the Regulatory Procedure for these Rules.

1. General Rules and Criteria of the Evaluation of the Dissertations and Persons of the Applicants

1. The condition for the commencement of the proceedings on the defence is the obligation of the applicant to submit along with the work reprints or copies of at least fifteen (15) works, published in foreign journals with an impact factor, cited in the databases of SCI, Scopus, etc.
2. In the evaluation of the eligibility of the applicant, all of the scientometric criteria will be taken into consideration, which allows the objectivisation of the judgement of scientific activities and person of the applicant. The starting criteria, however, will be the quality as well as number of publications by the applicant, particularly articles in impact and reviewed journals, monographs, possibly chapters in monographs and contributions in the reviewed proceedings of renowned international conferences, as well as also the rate of citation of these works. The commission will also request that the applicant mark at least five (5) of his/her own works that he/she considers as the most significant.
3. Further criteria in the evaluation will be
 - a distinctive scientific contribution to the existing research directions, or to the emergence of a prospective direction or founding of a new direction,
 - the ability to organise scientific work, propose and implement research programmes,
 - the creation and leadership of scientific teams, the creation of a scientific school in the given field,
 - active agency in scientific organisations, the programme committees of international conferences, possibly in the editorial councils of scientific journals,
 - position in international projects and in international cooperation,
 - invited lectures at important conferences and schools,
 - activity in university instruction and within doctoral study programmes,
 - implementation of the results of research investigation, patents, licences, etc.
4. In its decision on the acceptance of the dissertation submitted, the commission will also rely on the personal evaluation of the submitted work and

the eligibility of the applicant by the members of the commission on their overview in the given field, knowledge and personal responsibility.

5. In the judgement of the eligibility of the applicant, no political, social (service) position of the candidate, his/her age and merits which are not connected with the field in which the dissertation is defended will be taken into consideration.

2. Materials and Documents Requested for the Defence:

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4 of the Rules),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

10 July 2008

Ing. Rudolf Dvořák, DrSc.
Chairperson of the Commission

Discussed and approved on 13 November 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Mechanics of Rigid and Flexible Bodies, Constructions, Mechanisms and Environments' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

In the evaluation of the requests of the applicants for the scientific degree of 'Doctor of Sciences' (abbreviated as DSc.), the Commission is governed by the Guidelines of the Academic Council of the ASCR No. 3 'Rules for the Granting of the Scientific Degree *Doctor of Sciences* in the Academy of Sciences of the CR' (Internal norm part 8/2006, issued by the Head Office of the ASCR, reference No. K-2143/VR/06, from 5 December 2006) and the Regulatory Procedure for these Rules.

1. General Rules and Criteria of the Evaluation of the Dissertations and Persons of the Applicants

The condition for the commencement of the proceedings on the defence is the obligation of the applicant to submit along with the work reprints or copies of at least fifteen (15) works, published in foreign journals with an impact factor, cited in the databases of SCI, Scopus, etc.

In the evaluation of the eligibility of the applicant, all of the scientometric criteria will be taken into consideration, which allows the objectivisation of the judgement of scientific activities and person of the applicant. The starting criteria, however, will be the quality as well as number of publications by the applicant, particularly articles in impact and reviewed journals, monographs, possibly chapters in monographs and contributions in the reviewed anthologies of renowned international conferences, as well as also the rate of citation of these works. The commission will also request that the applicant mark at least five (5) of his/her own works that he/she considers as the most significant.

Further criteria in the evaluation will be

- a distinctive scientific contribution to the existing research directions, or to the emergence of a prospective direction or founding of a new direction,
- the ability to organise scientific work, propose and implement research programmes,
- the creation and leadership of scientific teams, the creation of a scientific school in the given field,
- active agency in scientific organisations, the programme committees of international conferences, possibly in the editorial councils of scientific journals,
- the position in international projects and in international cooperation,
- invited lectures at important conferences and schools,
- activity in university instruction and within doctoral study programmes,
- the implementation of the results of research investigation, patents, licences, etc.

In its decision on the acceptance of the dissertation submitted, the commission will also rely on the personal evaluation of the submitted work and the eligibility of the applicant by the members of the commission on their overview in the given field, knowledge and personal responsibility.

In the judgement of the eligibility of the applicant, no political, social (service) position of the candidate, his/her age and merits which are not connected with the field in which the dissertation is defended will be taken into consideration.

10 July 2008

Ing. Jaromír Horáček, DrSc.
Chairperson of the Commission

Discussed and approved on 13 November 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Biomedicine' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants:

1. Dissertation

The applicant will submit a dissertation or foreign monograph that clearly demonstrates his/her independent and original scientific work, which has acquired domestic and foreign recognition.

2. Publication

The applicant must have at least thirty (30) primary publications in international journals with an IF. An exception could consist in applicants from clinical fields, when even a lower number of publications in international journals could be accepted (the recommended limit is at least fifteen /15/ publications) complemented by other professional articles. The total impact factor of these publications by the applicant must be greater than fifty (50), with the clinical fields greater than thirty (30), i.e. $IF > 50$ or $IF > 30$. The applicant should be the first author of at least five (5) primary publications in international journals with an IF and in the majority of the other publications the corresponding author. The applicant is also the author of at least one monograph or several chapters in domestic or foreign monographs. The other publications by the author have only a supporting role.

3. Citation Response

The applicant will submit the citation response without self-citations (SCI) and his/her H-index. The citation response of the applicant must be higher than 150x with the theoretical fields, higher than 60x with the clinical fields. The applicant must submit a list of the rate of citation of his/her individual works, always with the listing of all of the authors who have cited his/her work.

4. Grants

The applicant must be (or have been) the investigator of his/her own grant from the Czech Science Foundation, Ministry of Health of the CR, ASCR or a foreign grant.

5. Scientific Training

The applicant must be the advisor of at least one doctoral candidate who successfully defended his/her dissertation.

6. Lecture Activity

The applicant has manifested regular lecture activity at home and abroad. He/She has produced evidence of an invitation to the lecture type of Seminar at a foreign university, a plenary lecture at a conference or an invited lecture at a symposium.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Other than the materials listed above, the commission requires the submission of the supplementary materials name in Points 1–6 of the General Criteria.

13 February 2008

Prof. MUDr. Eva Syková, DrSc
Chairperson of the Committee

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

**The Principles of the ‘Organic and Bioorganic Chemistry’
Commission
for the Evaluation of the Dissertations and Persons of the
Applicants for the ‘DSc.’ Degree**

The work of the commissions proceeds from the Rules for the Granting of the ‘Doctor of Sciences’ Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of ‘Doctor of Sciences’, and governed by the Regulatory Procedure to the Rules for the Granting of the ‘Doctor of Sciences’ Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

- a) Each application will be evaluated individually taking into consideration the demanding nature of the work on one publication and the typical citation in that field;
- b) The number of publications and citation for accepting the request for the defence is set for orientation. Applicants will be accepted for the defence who have published more than fifty (50) original works in reviewed journals, at least a fourth of which have been published in journals that are among the most prestigious in the field;
- c) For the international response to the work by the applicant, it is necessary to provide more than 200 citations of the applicant’s work with the exclusion of direct and co-authorial citations and at least 250 total citations;
- d) The selected publications that become the background material of the dissertation must comprise a unitary whole and in and of themselves must characterise the applicant as a scientific person respected in the international perspective who has demonstrably contributed to the development of the given scientific area.

2. Materials Required for the Defence:

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) A curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the ‘Rules’);
- e) The theses of the dissertation in twenty-five (25) copies;
- f) The dissertation in five (5) copies;
- g) A statement of in what labour relation the dissertation was created;
- h) An expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
- i) Written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
- j) If the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

13 March 2008

RNDr. Zdeněk Havlas, DrSc.
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Zoology and the Physiology of Animals' Commission for the Evaluation of Dissertations and the Person of the Applicant for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

The applicant must be the author or co-author of at least fifty (50) primary publication in international journals and the corresponding author of at least fifteen (15) primary publications.

The applicant should also be the author of either one monograph, an extensive synoptic article (not a mini-review) in an international journal or chapters in a domestic or foreign monograph.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

Other than the materials listed above, the commission requests the fulfilment and submission of the following supplementary data:

The applicant must submit a list of the rate of citation of the individual works, namely in the form of references to the publications in which these works have been cited (in the format of the WOS or SCOPUS database). The total impact factor of the publications of each applicant must be greater than 30 (IF > 30). The total citation response (SCI) of the works by the applicant with self-citation, based predominantly on the WOS and SCOPUS databases, must be greater than 200x in theoretical fields. In these numbers, it is possible to present also proven responses in non-

impact book and other publications and also responses in textbooks, monographs and non-impact journals.

6 February 2008

Prof. RNDr. František Vyskočil DrSc.
Chairperson of the Commission

Discussed and Approved on 19 June 2008 By the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Microbiology, Mycology and Virology' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

1. The applicant must be internationally recognised person in the field (subfield).
2. The publications selected as the background material for the dissertation must comprise a thematically compact collection.
3. In the decision on the dissertation, the commission will rely predominantly on the personal evaluation of the members of the commission, on their overview of the field and personal responsibility.
4. With the scientometric criteria, it is generally supposed that the applicant should be the author of at least thirty (30) original works in reviewed international journals, at least 200 citation responses provable according to the ISI Web of Knowledge.
5. The following are considered as supporting criteria:
 - a) The applicant is or has been an investigator of his/her own domestic or foreign grants.
 - b) A list of invitation to prestigious international meetings where the applicant was requested to present a plenary lecture.
 - c) An overview of the pedagogical activities (lectures at universities, training for students, guest professorships).
 - d) Honorary recognition which the applicant received in the CR or abroad.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

12 June 2008

prof. RNDr. Jaroslav Spížek, DrSc.
Chairperson of the Commission

Discussed and approved on 15 October 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree

The Principles of the 'Chemical Engineering' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants

1. The basic criterion for the granting of the degree will be fully respected with an emphasis on the contribution of the applicant to the development of the field, on his/her scientific qualities and on the international response to his/her work.
2. The publications selected as the background material for the dissertation must comprise a thematically compact collection and must characterise the applicant as a distinctive scientific person.
3. In the decision on the dissertation, the commission will rely predominantly on the personal evaluation of the members of the commission, on their overview of the field and personal responsibility. The so-called scientometric criteria could serve as a supporting argument, but they will not have a greater weight than the personal statements of the members of the commission.
4. It is generally supposed that the applicant should be the author of at least thirty (30) original works in reviewed international journals with at least 100 proven citation responses (with the exclusion of self-citations).
5. For the preliminary judgement of the belonging of the dissertation in the field of 'Chemical Engineering', the commission requests the submission of the following materials in printed and electronic forms:
 - The theses of the dissertation of a length of two pages with an emphasis on the originality and main contribution of the collection of works for the development of the field.
 - A list of the publications included in the dissertation.
 - A brief, structured curriculum vitae.

2. Materials Required for the Defence:

Materials listed in the 'Rules':

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;

- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies;
- f) the dissertation in five (5) copies;
- g) a statement of in what labour relation the dissertation was created;
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors;
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4);
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

14 March 2008

prof. Ing. Jiří Drahoš, DrSc.
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.
Chairperson of the Panel
for the 'Doctor of Sciences' Degree