Background material intended for theoretically possible
Annual Reports for the four years 2003–2006

Christer O. Kiselman

The categories are those used in the earlier Annual Reports of the Department of Mathematics, Uppsala University.

1. Committee assignments

1.1. International commissions

Rector, International Congress University at the Universal Congress of Esperanto held in Göteborg, Sweden, 2003-07-26—08-02.
Secretary of the Commission for the International Congress University (Vilnius, Florence, Yokohama), 2005[— 2007].

1.2. Committee assignments at the national level

Member of the steering group for the Graduate School in Mathematics with Specialization in Mathematics Education, financed by the Bank of Sweden Tercentenary Foundation, 2000—2003-12-31.
Director, Graduate School in Mathematics and Computing, 2001-02-01—2006-04-30.
Member of the working group under the Mathematics Delegation for the school years 11 and 12 and the university-level studies.
Member of the working group under the Mathematics Delegation for adult education and vulgarization.

1.3. Committee assignments within Uppsala University

Member, Committee for Technical Education (Tekniska utbildningsnämnden, TUN) 2002-07-01—2005-06-30.
Member, Board of the Centre for Image Analysis, 2003-01-01—2006-12-31.
2. Visitors

Host for Jean Serra, École des Mines de Paris, Fontainebleau, 2003 Celsius lecturer of the Faculty of Science and Technology, 2003-02-10—17.

Host for Atsuhiko Eida, School of Computer Science, Tokyo University of Technology, 2003-09-07—13.


Host for Damien Jamet, Université de Montpellier II, 2005-02-22—28.

Host for Byunghyun Oh, Pohang University of Science and Technology (POSTECH), 2006-06-23—29.

3. Publications

3.1. Research articles


07-1. Enkonduko al distribucioj [Introduction to distributions]. Acta Sanmarinensia

3.2. Other publications


05-ii. Kiselman, Christer; Halldin, Sven; Danielsson, Ulf; Carlson, Karin; Mattsson, Amalia; Rutberg, Martin. “Svenska språket dör ut på landets universitet” [“The Swedish language is dying at the country’s universities”]. *Dagens Nyheter* 2005-06-17, page 6. *Original title: Utbildningens internationaliserings och demokratin ‘The internationalization of education, and democracy.’*
4. Reports, lecture notes, etc.


04-C. Convex functions on discrete sets. Uppsala University, Department of Mathematics, Report 2004:32.


05-B. Functions on discrete sets holomorphic in the sense of Isaacs, or monodiffric functions of the first kind. Uppsala University, Department of Mathematics, Report 2005:5.

5. Editorial work

Member of the Editorial Board of *Mathematical Physics, Analysis and Geometry*, Springer (November, 1993 — present).

Editor of the international scientific journal *Esperantologio / Esperanto Studies*, 1999 [— present]. Issue No. 3 was published both in printed and in electronic form in 2005.


6. Seminars

Co-organizer of the Pluricomplex Seminar. [See Bullen.] But at least two lectures are missing there under *Plurikomplexa seminariet*:

Roman Novikov talade 2003-11-11: *Non-abelian Radon transform and applications.*
Viktor Palamodov talade 2003-11-11: Reconstruction from data on ray integrals. Organizer of the Seminar on Digital Geometry and Mathematical Morphology. [See Bullen.]

7. Participation in conferences, research visits, talks, etc. at other universities

Participated and delivered the opening address at the symposium Preparation of Mathematics Teachers for the Future, held in Malmö 2003-05-05—07.
Invited speaker at the international conference Nordan 7, held in Visby 2003-05-23—25.
Participated in the conference Matematikdidaktik – forskning och praxis, held in Sigtuna 2003-06-04—05.
Participated as president of the Program Committee and main organizer of the Symposium on Communication Across Cultural Boundaries, Göteborg 2003-08-02—03.
Visit for the Mathematics Delegation to the Freudenthal Institute, Utrecht, 2003-11-27.
Invited speaker at a conference organized by the Nordic Council of Ministers at Voksenasen, Oslo: Engelsken og dei nordiske spráka på høgskolor og universitet [English and the Nordic Languages at Universities], 2004-06-07—08.
Invited lecturer in a workshop organized by the Morningside Mathematical Center, Chinese Academy of Sciences, Beijing, 2004-07-21—08-21; participated 2004-08-01—21.
Invited lecturer at the First International Conference on Several Complex Variables and Complex Geometry, China SCVCG1, Beijing, 2004-08-23—27.

Lecturer at the *Tenth International Workshop on Combinatorial Image Analysis* (IWCAIA), Auckland 2004-12-01—03.

Participated with a lecture in *Complex Days of the North*, Reykjavik, Iceland 2005-01-04—05.


Participated (with several presentations) in the *90th Universal Congress of Esperanto*, Vilnius, 2005-07-23—30.

Participated in the international conference *Bi- and Multiplilingual Universities*, Helsinki, 2005-09-01—03. Work presented by Karin Carlson.


Participated as a member of the Reference Group of the *International Science Programme, ISP* in a visit to Saint-Louis and Dakar, Sénégal, and gave a talk, 2005-09-19—24.

Visit to Mid Sweden University, Sundsvall, on the occasion of the thesis defense of Tao Feng, 2005-10-24.

Visit to *École Supérieure d’Ingénieurs en Électronique et Électrotechnique, ESIEE*, Val-de-Marne, 2005-12-12 and 2005-12-14—15.

Visit to *Le Laboratoire d’Informatique, de Robotique et de Microélectronique de Montpellier* (LIRMM), Université Montpellier II, 2005-12-13—14.

Visit to Karlstad University on the occasion of the thesis defense of Mirala Cristina Vinerean, 2005-12-16.

Invited scientist at Pohang University of Science and Technology (POSTECH): 2006-03-04—19. Several lectures there.

Invited to Université Louis Pasteur, Strasbourg 2006-05-10—13. Two lectures.


Invited lecturer at *International Conference on Several Complex Variables*, Beijing, 2006-06-05—09.


Participated in the *91st Universal Congress of Esperanto*, Florence, Italy, 2006-07-
Invited lecturer at the twentieth anniversary of *Groupe Inter-Africain de Recherche en Analyse, Géométrie et Applications* (GIRAGA), Yaoundé, Cameroon, 2006-09-09–13.


Lecture at Polska Akademia Umiejętności (Polish Academy of Arts and Sciences) 2006-12-06.


8. **Professional service outside Uppsala University (as expert, editor, referee, reviewer, member of scientific societies, etc.)**

8.1. **Expert**

Deputy Member of the Grading Committee for Hans Rullgård’s Ph. D. thesis defense at Stockholm University on 2003-11-10.


External referee for a promotion to the rank of Professor at The University of Western Ontario, London, Ontario, Canada. Report 2005-07-11.

Member of the jury and rapporteur for the Doctoral Dissertation of Damien Jamet, Université de Montpellier II, 2005-12-13.


Chairman of the Grading Committee for Jan Erik Solem’s Ph. D. thesis defense at Malmö University on 2006-09-29.

Assessor for a promotion to the rank of Associate Professor at The University of Adelaide, 2006-10-14.

Expert at the Royal Academy of Sciences for an application for research cooperation between Sweden and the former Soviet Union; report 2006-11-06.

Member of the jury and rapporteur at Université Paul Sabatier for the habilitation of Stéphanie Nivoche, 2006-12-13.
8.2. Research cooperation

Research cooperation with Stockholm University: Julius Borcea and Shiva Samieinia (since 2005-09-09).

8.3. Referee reports

2003.1 Mathematische Annalen.

8.4. Services in the national and international scientific communities

Professor at Akademio Internacia de la Sciencoj, San Marino, 1984 — present.
Member, Section on Grammar, Academy of Esperanto, 1989—2007.
Member, Section on General Vocabulary, Academy of Esperanto, 1989—2007.
Member, Section on Pronunciation, Academy of Esperanto, 1999—2007.
Member of the Organizing Committee of the international research symposium Preparation of Mathematics Teachers for the Future, held in Malmö 2003-05-05—07.
President of the Program Committee for the Symposium on Communication Across Cultural Boundaries, held in Göteborg 2003-08-02—03.
Member of the Scientific Committee of the International Conference on Analysis in Several Complex Variables, held in Sundsvall 2004-06-21—24.
Member of the Organizing Committee for 4ECM, Fourth European Congress of Mathematics, held in Stockholm 2004-06-27—07-02.
Member of the Organizing Committee for the First International Conference on
Several Complex Variables and Complex Geometry, China SCVCG1, held in Beijing 2004-08-23—27.

Member of the Program Committee for IWClA, Tenth International Workshop on Combinatorial Image Analysis, held in Auckland 2004-12-01—03.

Member of the Scientific Committee for the 24th Nordic and 1st Franco-Nordic Congress of Mathematicians, held in Reykjavík, 2005-01-06—09.

Member of the Program Committee, Discrete Geometry for Computer Imagery (DGCI), held in Poitiers 2005-04-13—15.

Chairman of the Matts Essén Foundation, 2005 — present.

Member of the Organizing Committee, Conference in Honor of Henri Skoda, held in Paris 2005-09-12—16.

Member of the Organizing Committee, Rolf Schock Prize Meeting in Mathematics, held in Stockholm 2005-10-26.

Scientifically responsible for the theme Géométrie discrète et combinatoire in the international conference GeoNet, to be held in Porto-Novo, Benin, 2007-06-10—17.

Member of the Program Committee for the International Symposium on Mathematical Morphology, ISMM, to be held in Rio de Janeiro, 2007-10-14—21.

8.5. Memberships in academies and learned societies

Academies:
Member, Royal Academy of Arts and Sciences, Uppsala, 1983 — present.
Member, Royal Society of Sciences, Uppsala, 1984 — present.
Member, Internacia Scienca Akademio Comenius, 1986 — present.
Member, Academy of Esperanto, 1989 —2007.
Member, Royal Swedish Academy of Sciences, 1990 — present.
Member, Polish Academy of Arts and Sciences (Polska Akademia Umiejętności, PAU), 2002 — present.

Learned societies:
Member, Swedish Astronomical Society, 1954 — present (life member).
Member, Swedish Mathematical Society, 1960s — present (life member).
Member, American Mathematical Society, 1966 — present (life member).
Member, Société Mathématique de France, 1960s — present.
Member, European Mathematical Society, 1990s — present.
Uppsala humanistiska samfund.
9. Awards, prizes, special events, miscellaneous

At a ceremony at the Polish Embassy in Stockholm, the diploma of membership in the Polish Academy of Arts and Sciences was handed over by the Ambassador of the Republic of Poland, Marek Prawda, on 2003-06-10. Acceptance speech in Swedish and in Polish; the latter being read by Hania Uscka-Wehlou.

The first Matts Essén scholarship awarded to Salla Franzen, 2005-05-09.

Presentation of the work of Louis Caffarelli, the recipient of the Rolf Schock Prize, 2005-10-27.

The second Matts Essén scholarship awarded to Lina Jansson, 2006-05-09.

10. Teaching and thesis advising

10.1. Undergraduate education

2003
Spring Semester: Distribution Theory D (a special course).
Fall Semester: Specialkurs i matematik NV1 [Honors Course in Mathematics, NV1].

2004
Spring Semester: Digital Geometry and Mathematical Morphology, Lecture Notes.
Fall Semester: Specialkurs i matematik NV1 [Honors Course in Mathematics, NV1].

2005
Spring Semester: Specialkurs i matematik NV2 [Honors Course in Mathematics, NV2].
Fall Semester: Specialkurs i matematik NV1 [Honors Course in Mathematics, NV1].

10.2. Graduate education

2003
Spring Semester: Distribution theory (a special course).
Ill-Posed problems (a new course).
The Pluricomplex Seminar.
Fall Semester: The Pluricomplex Seminar.

2004
Spring Semester: Digital Geometry and Mathematical Morphology, Lecture Notes.
The Pluricomplex Seminar.
The seminar on Digital Geometry and Mathematical Morphology.
Fall Semester: The Pluricomplex Seminar.
The seminar on Digital Geometry and Mathematical Morphology.
2005

Spring Semester: The Pluricomplex Seminar.
The seminar on Digital Geometry and Mathematical Morphology.

Fall Semester:
Partial Differential Equations (4 credit points) and
Partial Differential equations $D$ (6 credit points).
The Pluricomplex Seminar.
The seminar on Digital Geometry and Mathematical Morphology.

2006

Spring Semester:
The Pluricomplex Seminar.
The Seminar on Digital Geometry and Mathematical Morphology.

Fall Semester: The Pluricomplex Seminar.
The Seminar on Digital Geometry and Mathematical Morphology.

10.3. Thesis advising


Master’s Thesis advisor for Erik Melin; thesis (20 credit points) presented on 2003-06-06. Title: Connectedness and Continuity in Digital Spaces with the Khalimsky Topology.


Master’s Thesis advisor for Sara Nordström, Fall of 2003; thesis (20 credit points) presented on 2003-12-15. Title: Sömnadens geometri [The Geometry of Seams].


11. The Third Task

Leader of a national project to create a book on terminology in mathematics in Swedish with emphasis on the schools and teacher education. The project is financed
by the National Center for Mathematics Education. 2001 — present.

Invited lecture at a national conference on the theme Läs- och skrivsvårigheter och matematisk förmåga. Title of lecture: Matematikens språk – språkens matematik [The Languages of Mathematics—the Mathematics of Languages], 2003-10-23.


Participated with two lectures at Biennalen in Malmö, the most attended mathematics conference in Sweden, 2004-01-22—24: Vad betyder kvot? [What is the meaning of the word quotient?] and Datorskärmens geometri [The Geometry of the Computer Screen].

Invited speaker at the public meeting of Dialogseminariet, Det matematiska kulturarvet [The Mathematical Cultural Heritage], Dramaten, Stockholm: Kulturens kraft [The Force of Culture], 2004-03-21


Was interviewed in Esperanto on 2004-08-25 at China Radio International. The interview was broadcast twice, in August and September, 2004.

Was interviewed in French on 2004-08-25 at Radio Chine Internationale on the topic of L’Éducation technique et les mathématiques. The interview was broadcast in the program La Science et l’Éducation on 2004-09-09.

Invited lecturer at the public meeting of Språkförsvaret [The Language Defense]: Svenskan ställning inom högskolan [The position of the Swedish language at the Swedish universities], 2005-11-13.