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# The Bank of Sweden Tercentenary Foundation

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Riksbankens Jubileumsfond

1987



# To the Swedish Riksdag

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The Board of Directors of the Bank of Sweden Tercentenary Foundation submits herewith the following report on its activities in 1987.

At the end of the year, the Board of Directors consisted of the following members and deputy members:

Professor Kjell Härnqvist (chairperson)

Deputy: Professor Bengt Pernow

Bengt Dennis, Governor of the Bank of Sweden (vice-chairperson)

Deputy: Kari Lotsberg, Asst. Manager, Bank of Sweden

Stig Gustafsson, M.P.

Deputy: Birger Rosqvist, M.P.

Helge Hagberg, M.P.

Deputy: Margit Sandéhn, M.P.

Ing-Marie Hansson, M.P.

Deputy: Lars Svensson, M.P.

Lars Ahlmark, M.P.

Deputy: Birger Hagård, M.P.

Britta Bjelle, M.P.

Deputy: Lennart Alsén, M.P.

Birgitta Hambræus, M.P.

Deputy: Agne Hansson, M.P.

Professor Walter Korpi

Deputy: Professor Lars Furuland

Professor Leif Lewin

Deputy: Professor Ulf Olsson

Professor Solveig Wikström

Deputy: Professor Jan Erik Kihlström

In accordance with Foundation statutes, the Board seats held by the Governor of the Bank of Sweden and his deputy shall be relinquished from January 1, 1988. The municipal cashier Lars-Erik Klangby and Sten Wikander, a company managing director, were appointed to the Foundation's Board.

Professor Nils-Eric Svensson served as the Foundation's managing director and chief of staff in 1987.

# The Tasks of the Bank of Sweden Tercentenary Foundation

According to its statutes, the Bank of Sweden Tercentenary Foundation is an independent Foundation whose task is to support and promote scientific research related to Sweden. This means that e.g. a) precedence is given to research fields which are inadequately financed in other ways, b) Foundation grants are primarily made to major, long-term projects, c) special support is provided for new research fields demanding rapid and comprehensive measures, and d) contacts with international research programmes are promoted.

The guidelines drawn up prior to Riksdagen's adoption of the Foundation's first statutes (1964) prescribed that the activities of the Foundation initially "concentrate on research aimed at expanding knowledge about the impact of technical, economic and social changes on the society and on individual citizens."

In the view of the Board, this statement can still provide useful guidance on the appropriate emphasis in Foundation activities. Socially important research fields lacking any particular representative should also receive special support. Foundation assistance can be viewed primarily as a *complement*, not as an alternative, to resources already available for financing high-level scientific research in Sweden.

## New financing forms and statutes

The Foundation's activities have hitherto been financed with the yield from assets allocated at the time the Foundation was founded in 1962 (SEK 250 million in securities) and, thereafter, by additional appropriations in 1974 and 1978 (SEK 100 million in securities each time).

Even though the entire yield, in principle, has been utilized every year, maintaining the real value of the Foundation's grant capacity has been difficult. Cost increases, especially from 1970-1980, have greatly outpaced increases in the yield from the Foundation's securities portfolio.

No active financial management, for the purpose of increasing revenue, has hitherto been possible. The Foundation's true worth has therefore been successively undermined, as the Board has repeatedly noted in e.g. annual reports in recent years.

In a petition to Riksdagen on March 19, 1987, Bank of Sweden commissioners proposed new rules for the Foundation's future activities. They felt "that a long-term solution to the Foundation's financing problems was essential so as to provide the Foundation with economic resources sufficient to sustain its present grant capacity without any supplementary appropriations. To this end and for

the purpose of facilitating Foundation planning, long-term planning in particular, the commissioners propose that Riksdagen acquire the securities allocated to the Foundation for the sum of SEK 600 million, that Riksdagen allocate an additional SEK 900 million in cash to the Foundation and that the Foundation is allowed to manage its own assets, investing them wholly or in part in assets other than securities, such as shares or real estate."

Riksdagen approved these proposals in a ruling in June 1987 (FiU 1986/87:33) and gave the commissioners the task of drafting new regulations and guidelines for the Foundation. Following consultations with the Foundation's executive management and Board of Directors, the commissioners drew up proposals for new regulations and new statutes and submitted them to Riksdagen on October 8, 1987. Riksdagen adopted the new statutes for the Foundation in a ruling on December 15, 1987 (FiU 1987/88:4). The new statutes came into force on January 1, 1988. They prescribe a more independent position for the Foundation than the previous statutes. For example, Riksdagen will no longer rule on changes in Foundations statutes. Riksdagen will henceforth only be able to confirm or, alternatively, reject statute changes previously adopted by the Foundation's Board. As before, Riksdagen will continue to appoint members of the Board.

Formal links to the Bank of Sweden have been severed. In future, the Foundation will be audited separately and manage its own assets. The Bank of Sweden will no longer be represented on the Foundations's Board.

The new statutes prescribe that the Board of Directors henceforth consist of 12 members, two of whom with special expertise in financial management. The Bank of Sweden's commissioners will propose two candidates for these seats. They may not be people who are employed by or are carrying out assignments on behalf of the Bank of Sweden. The Board's composition is unchanged in other respects.

# Procedure

Rulings on research grants etc. are made by the Board of Directors which had four formal meetings during the year. Rulings are supported by evaluations made by one or more Foundation committees. The committees consist of Board members and deputies plus experts outside the Board. As a rule, applications for grants are vetted by and evaluated by outside specialists.

Applications concerning ethically questionable research are vetted according to the same standards as those prevailing in state-sponsored research. Applications dealing with medical research must be approved by the committee on ethics at a university department of medicine before any grant can be awarded. In the corresponding manner, the committee on ethics of the Swedish Council for Research in the Humanities and Social Sciences is asked to evaluate applications concerning behavioural science and social science.

The five preparatory committees during the year had the following composition and fields:

## Committee 1 (Economics, Geography etc.)

Britta Bjelle, M.P.  
Birgitta Hambræus, M.P.  
Helge Hagberg, M.P.  
Kari Lotsberg, Asst. Manager, Bank of Sweden  
Ulf Olsson, Ph.D., Professor  
Solveig Wikström, Ph.D., Professor (chairperson)  
Villy Bergström, Ph.D., Professor  
Erik Bylund, Ph.D., Professor

## Committee 2 (Behavioural Sciences etc.)

Kjell Härnqvist, Ph.D., Professor (chairperson)  
Walter Korpi, Ph.D., Professor  
Lars Svensson, M.P.  
Karl Gustav Jöreskog, Ph.D., Professor  
Lars-Göran Nilsson, Ph.D., Professor

## Committee 3 (Political Science, Law etc.)

Lennart Alsén, M.P.  
Stig Gustafsson, M.P.  
Birger Hagård, M.P.  
Leif Lewin, Ph.D., Professor (chairperson)  
Lars-Göran Stenelo, Ph.D., Professor

## Committee 4 (Medicine, Natural Sciences, Technology etc.)

Lars Ahlmark, M.P.  
Agne Hansson, M.P.  
Ing-Marie Hansson, M.P.  
Jan Erik Kihlström, Ph. D., Professor (chairperson)  
Bengt Pernow, M.D., Professor  
Birger Rosqvist, M.P.  
Sune Berndt, Ph.D., Professor  
Rolf Öhman, M.D., Professor

## Committee 5 (Humanities etc.)

Lars Furuland, Ph.D., Professor (chairperson)  
Margit Sandéhn, M.P.  
Sten Carlsson, Ph.D., Professor  
Mats Furberg, Ph.D., Professor  
Inger Rosengren, Ph.D., Professor

A Committee 6 (Finances) will begin operating on January 1, 1988 with Lars-Erik Klangby, municipal cashier and Sten Wikander, company director (chairperson) as members. It will prepare subjects concerning the Foundation's financial management.

The Foundation's managing director participated in the work of all committees.

The Foundation occasionally appoints special committees for fields viewed as important but which are inadequately served. The task of the special committees is to identify research needs and encourage scientific research and the exchange of information.

The special committees consist of scientists in disciplines of importance to each field and representatives of relevant public interests. The activities of special committees can be viewed as high-level, research preparatory work. This work is concluded when a field has attracted sufficient attention by scientists and/or authorities responsible for supplying permanent resources in that field.

One such special committee was in operation during the year, viz. the committee for **Research on Riksdagen's operations and procedures**. It had the following members: Bertil Fiskesjö, M.P. (Centre), Stig Gustafsson, M.P. (Social-Democrat), Olle Göransson, M.P. (Social-Democrat), Olle Svensson, M.P. (Social-Democrat), Jan Erik Wikström, M.P. (Liberal), Pär-Erik Back, Ph.D., Professor, Gunnar Biörck, M.P. (Conservative), Olof Ruin, Ph.D., Professor, Nils Stjernquist, Ph.D., Professor (executive member), Nils-Eric Svensson, Ph.D., Professor (chairperson), and Anna-Lena Winberg (committee secretary).

The Foundation is also performing an internal study on ongoing programmes and research needs in the **Aesthetics Research** field. Paul Lindblom, Ph.D., the Foundation's previous director, is conducting the study.

## Finances

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The Foundation's financial position on December 31, 1987 and 1986 is described in the Tables below.

The item *Bequests* under Liabilities in the BALANCE SHEET consists of two sub-items, i.e. "Capital" and "Valuation difference, bequest capital." "Capital" consists of securities listed at the book value recorded for them at the time they were transferred to the Foundation (1962, 1974 and 1978). "Valuation difference, bequest capital" constitutes the difference between the face value of the securities portfolio and the previous book value of those securities. This sub-item increased by SEK 8 000 during the year. The result, which is also listed in the APPROPRIATION ACCOUNT (*Expenses*, brought forward to "Valuation difference, bequest capital"), reflects the fact that certain securities were sold at a higher price than the previous book value.

As previously, securities are listed at face values on the Assets side of the Balance Sheet. (A footnote describes the portfolio's composition and rate on December 31.) This item declined by SEK 5 180 000 during the year. This decline was largely due to the fact that some of the bonds were drawn during the year and some fell due for redemption. No new purchases were made during the year.

According to an agreement based on Riksdagen's ruling described above, Riksdagen acquired all of the Foundation's securities on January 4, 1988.

### Resource developments

The Foundation's grant capacity is wholly dependent on the yield on the assets available to it. To date, assets have solely consisted of securities administered by the Bank of Sweden.

From 1965 to 1974, interest revenue amounted nominally to about SEK 20 million per annum. From 1975 to 1978 it amounted to about SEK 27 million, from 1979 to 1980 to nearly SEK 40 million and from 1981 to 1983 to SEK 50 million. The magnitude of revenue after 1983 was more than SEK 60 million. The increase in recent years is related to the fact that some bonds fell due for redemption. Other, higher-yield securities were then purchased.

The real value of annual grants declined considerably in the 1970's. Since 1981, some research funds have been set aside for future years. SEK 3 million and SEK 0.8 million of this allocation were drawn on in the past 2 years, as shown in the APPROPRIATION ACCOUNT. Thus, the Foundation's financial resources could be incremented annually throughout the 1980's to date roughly on a par with increases in the Consumer Price Index. However, salaries for staff paid by awarded grants have increased far more rapidly ("salary" constitutes 85-90% of grants), so there has been a decline in the nominal value of research grants. Compared to the Foundation's five first years, this decline has been very great, i.e. nominally more than 25%.

As previously reported, the Foundation's capital has declined considerably in nominal terms over the past few years, as no allocations were made. Interest revenue and, thus, the Foundation's grant capacity would have continued to decline if the solution described above under "New financing forms and statutes" had not been implemented. With the new procedure in force, however, it should be possible to sustain the Foundation's current grant capacity (more than SEK 65 million a year) in future years.

The Board of Director notes with great satisfaction that the proposal by the Bank of Sweden commissioner and Riksdagen's ruling ensures that the Foundation will be able to continue awarding grants of about the present magnitude to important, high-level Swedish research.

## Project Grants

During the year, the Foundation approved 227 research grants totalling SEK 58.8 million (Table 3, p. 13) plus SEK 2.0 million to cover automatic salary increases, travel expenses in ongoing projects and the work of special committees. The total (SEK 60.8 million) is listed under "Approved grants" in the APPROPRIATION ACCOUNT.

The sum of the three items "Approved grants", "Project costs", and "Administrative expenses" (SEK 66.3 million) constitutes the Foundation's resource expenditure, i.e. level of activity, in 1987. The corresponding expenditure in 1986 was SEK 61.4 million. Thus, the level rose by 8%.

A special section (pp. 17-43) describes *new* research projects to which grants were awarded during the year. Certain statistical information is also provided (pp. 13-15) on the applications considered. (Every five years - most recently in the 1984 Annual Report - the Foundation is publishing brief summaries [by subject field] of *all* the research projects hitherto supported by Foundation grants after the Foundation's start in 1965.)

Awarded grants are utilized according to conditions specified in the contract with every grant recipient and according to the rules drawn up by the Foundation for grant recipients and grant administrators. Virtually every grant awarded by the Foundation is administered by some state-run school which then serves as the grant recipient's employer.

27% of the grants awarded in 1987 went to new projects (Table 4, p. 14). Only 13% of the new grants sought were ultimately approved. The corresponding figures for the past four years was 14%, 14%, 10% and 16% respectively. So the competition for Foundation grants is very intense.

The average size of grants has retained about the same value in real terms over the past five years. The average grant in 1983, i.e., SEK 206 000, would be equivalent to SEK 259 000 in 1987 if incremented to reflect changes in the Consumer Price Index. In fact, the average grant did amount to SEK 259 000.

## Project Follow-up

Many of the research projects supported by the Foundation deal with problems of general social relevance. The dissemination of research results to the society outside academic circles, for discussion and critical scrutiny, is of the utmost importance.

As a rule, research results cannot be immediately transformed into concrete action or production. However, research is essential to serious development and reform. So people responsible for development and reform programmes should not only be kept informed about research in progress but must also be encouraged to seek out, pass on and utilize the products of research. Analogously, scientists should be encouraged in their work by being confronted with problems detected and described outside their sphere. Organizations supporting research can facilitate information exchanges such as this.

Over the years, the Foundation has carried out a number of activities designed to monitor research receiving support, stimulate interest and encourage information exchange in certain fields and between various groups in society. Visits to the universities in Gothenburg, Linköping and Lund during the year by Foundation Board members and/or committees are just one example of these activities. During these visits, discussions were held on various individual research projects and with the rectors, deans and other officials responsible for research training and the research organization at the respective universities.

Scientists or teams of scientists with grants from the Foundation have also been invited to the Foundation's offices so the awardees could present and take part in discussions on their projects.

In collaboration with the Swedish Academy of Engineering Sciences and the Swedish Employment Security Council, the Foundation held a conference at the end of the year on research needs arising from the changes induced by new technology. Papers presented at this conference were published in the book *Teknik och sysselsättning i framtiden* (Eng. = Technology and employment in the future) (RJ 1987:1). For a similar purpose, the Foundation and the Sports Research Council held a conference documented in the book *Samhällsvetenskaplig och humanistisk idrottsforskning* (Eng. = Sports research in social sciences and the humanities) (RJ 1987:2).

The special committee for Research on Riksdagen's Operations and Procedures held four lectures with discussions in the *Politik och riksdagsarbete* (Eng. = Politics and work in Riksdagen) series by and about former members of Riksdagen with introductory presentations by Jarl Hjalmarsson, Torsten Nilsson, Paul Lindblom, Nine Christine Jönsson (on Gustaf Möller) and Torsten Bengtson. The book on Riksdagen's history, "Riksdagen genom tiderna" (published in 1985), appeared in an English version, "The Riksdag: A History of the Swedish Parliament," during the year.

As in previous years, a number of grant recipients were given an opportunity to present their projects and research findings at foreign universities or international scientific symposia. As before, there were wide-ranging exchanges of information with foreign research foundations, European foundations in particular. As a result, numerous contacts were established between individual scientists or research teams.

Attempts were also made to interest the media in research supported by the Foundation. Lists of awarded grants and brief descriptions of several projects plus offers of help with addresses to scientists, not to mention other activities designed to facilitate contacts, are routinely sent to individual news media and news agencies every time a grant is awarded. However, the media utilize this material very infrequently. They almost never request additional information.

The examples of activities noted above represent one phase in the Foundation's efforts to promote information exchanges among scientists and between scientists and society outside the scientific sphere. As previously noted, the aim is to promote greater understanding and knowledge of the way science works, its conditions and its findings, thereby supplying information facilitating assessments of measures undertaken and being undertaken with research funds. Meetings in which decision-makers, representatives of different authorities and scientists have been able to meet are of particular value.

The Foundation is making an active effort in *all* scientific fields. The specialties of scientists on the Board and committees reflect this circumstance. The Board also consists of members with political and economic know-how. This gives the Foundation a unique position as a multifaceted interface between science and central public authorities.

The Bank of Sweden's accounting department audited Foundation accounts throughout the year. An external audit was also conducted by representatives of Riksdagen's accounting office.

Board members attending the meeting at which this Report was submitted were Kjell Härnqvist, Bengt Dennis, Stig Gustafsson, Helge Hagberg, Ing-Marie Hansson, Lars Ahlmark, Britta Bjelle, Birgitta Hambræus, Walter Korpi, Leif Lewin, Solveig Wikström and the managing director Nils-Eric Svensson.

*Kjell Härnqvist*

*Nils-Eric Svensson*

## Tables

**Table 1. BALANCE SHEET for the years ending December 31, 1987 and 1986**

Assets	1987	1986
Bonds	674 900 000:—*	680 080 000:—
Chequing account with Bank of Sweden	75 702 109:28	71 269 715:95
Postal giro account	114 588:91	5 899:91
Cash on hand	1 000:—	1 000:—
<b>TOTAL (SEK)</b>	750 717 698:19	751 356 615:86
<b>Liabilities</b>		
Approved but as yet undisbursed grants	38 324 989:72	35 953 782:87
Taxes withheld	36 434:—	37 552:—
Available funds for research grants:		
From previous years	71 676 505:03	72 441 723:30
Undivided surplus	-3 017 006:52	-765 218:27
Bequests:		
Capital	450 000 000:—	450 000 000:—
Valuation difference, bequest capital	193 696 775:96	193 688 775:96
<b>TOTAL (SEK)</b>	750 717 698:19	751 356 615:86
	<b>Face value</b>	<b>Value on Dec. 31</b>
* Swedish government bonds	309 005 000:—	283 545 900:—
Building society bonds	328 060 000:—	271 957 700:—
Municipal bonds	15 690 000:—	13 475 300:—
Industrial bonds	22 145 000:—	20 121 650:—
<b>TOTAL (SEK)</b>	674 900 000:—	589 100 550:—

**Table 2. APPROPRIATION ACCOUNT**

Revenue	1987	1986
Interest on securities	53 328 693:75	52 949 605:30
Other interest received	9 025 088:95	7 485 019:16
Other revenue	185 286:90	86 182:51
Grants not utilized	731 790:29	151 645:31
Sale and revaluation effects	8 000:—	—:—
Brought forward from value difference, bequest capital	—:—	226 500:—
Brought forward from previously allocated research funds	3 017 006:52	765 218:27
<b>TOTAL (SEK)</b>	<b>66 295 866:41</b>	<b>61 664 170:55</b>
<b>Expenses</b>		
Administrative expenses	3 107 738:26	2 784 315:85
Project costs	2 350 128:15	1 953 354:70
Approved grants	60 830 000:—	56 700 000:—
Sale and revaluation effects	—:—	226 500:—
Allocation to value regulation, bequest capital	8 000:—	—:—
<b>TOTAL (SEK)</b>	<b>66 295 866:41</b>	<b>61 664 170:55</b>

**Table 3. APPLICATIONS FOR AND GRANTS AWARDED IN 1987 (in 1 000 SEK)**

Field	Awarded grants		Applications		Awarded grants as a %		
	No.	Amount	No.	Amount	of amount sought	of no. sought	per field
<b>1. Social science</b>	114	32 217	267	87 518	36.8	42.7	54.8
1.1 Economic history	12	2 835	18	6 301	45.0	66.7	4.8
1.2 Business administration	4	1 029	29	8 923	11.5	13.8	1.7
1.3 Economics	11	4 185	25	10 007	41.8	44.0	7.2
1.4 Cultural geography	4	3 474	10	4 528	76.7	40.0	5.9
1.5 Sociology/Social policy	19	4 747	48	15 206	31.2	39.6	8.2
1.6 Statistics	1	300	1	433	69.3	100.0	0.5
1.7 Political science	27	7 264	48	16 163	44.9	56.3	12.3
1.8 Research on research	—	—	1	167	—	—	—
1.9 Information processing	—	—	2	507	—	—	—
1.10 Education	11	2 834	32	10 166	27.9	34.3	4.8
1.11 Psychology	22	5 129	37	10 942	46.9	59.5	8.7
1.12 Law/Criminology	3	420	14	3 267	12.9	21.4	0.7
1.13 Social anthropology	—	—	2	908	—	—	—
<b>2. Medicine</b>	28	7 062	83	25 378	27.8	33.7	12.0
<b>3. Natural science</b>	25	6 347	75	25 245	25.1	33.3	10.8
<b>4. Technology</b>	7	1 587	16	5 993	26.6	43.8	2.7
<b>5. Humanities</b>	50	11 317	109	28 910	39.1	45.9	19.2
<b>6. Miscellaneous</b>	3	300	4	849	35.3	75.0	0.5
<b>TOTAL</b>	<b>227</b>	<b>58 830</b>	<b>554</b>	<b>173 893</b>	<b>33.8</b>	<b>41.0</b>	<b>100.0</b>
Travel grants, Salary increases and special committees		2 000					
<b>Total</b>		<b>60 830</b>					



**Table 4. GRANTS FOR PROJECT CONTINUATION/NEW GRANTS IN 1987 (in 1 000 SEK)**

Type of application	Awarded grants		Applications		Awarded grants as a %		
	No.	Amount	No.	Amount	of amount sought	of no. field sought	per field
Grants for project continuation	156	43 113	168	57 265	75.3	92.9	73.3
New grants	71	15 717	386	116 628	13.5	18.4	26.7
<b>TOTAL</b>	<b>227</b>	<b>58 830</b>	<b>554</b>	<b>173 893</b>	<b>33.8</b>	<b>41.0</b>	<b>100.0</b>

**Table 5. THE NUMBER OF FINAL AND NON-RECURRENT GRANTS IN 1987 Classified by project duration and field**

Duration (years)	Social science	Medicine	Natural science	Technology	Humanities	Miscellaneous	Total	%
- 2	1	1	-	-	-	-	2	3.4
2 - 3	6	1	5	-	1	-	13	22.4
4 - 5	19	2	2	3	10	-	36	62.2
6 - 7	3	-	1	-	-	1	5	8.6
8 -	1	-	-	-	1	-	2	3.4
<b>TOTAL</b>	<b>30</b>	<b>4</b>	<b>8</b>	<b>3</b>	<b>12</b>	<b>1</b>	<b>58</b>	<b>100.0</b>

**Table 6. GRANTS 1965 - 1987 (in 1 000 SEK)**

	Applications granted		Amount awarded as a % per field
	Number	Amount	
<b>1. Social science</b>	1 945	369 115	56.0
1.1 Economic history	118	19 698	3.0
1.2 Business administration	125	17 851	2.7
1.3 Economics	230	49 967	7.6
1.4 Cultural geography	170	42 949	6.5
1.5 Sociology/Soc. policy/ Social anthropology	354	63 015	9.6
1.6 Statistics	55	8 869	1.3
1.7 Political science	338	71 601	10.9
1.8 Research on research	19	1 610	0.2
1.9 Information processing	16	5 783	0.9
1.10 Education/Psychology	440	77 194	11.7
1.11 Law/Criminology	80	10 578	1.6
<b>2. Medicine</b>	338	71 139	10.8
<b>3. Natural science</b>	268	60 795	9.2
<b>4. Technology</b>	40	7 866	1.2
<b>5. Humanities</b>	809	137 406	20.9
<b>6. Miscellaneous</b>	81	12 345	1.9
<b>TOTAL</b>	<b>3 481</b>	<b>658 666<sup>1</sup></b>	<b>100.0</b>

<sup>1</sup> Equivalent to SEK 1 700 million in 1987 prices

## **Summary of new Project Grants Awarded in 1987**

# Economic History

**Ulf Olsson, Umeå**  
**SEK 400 000**  
**Dnr: 87/122**

## **Medium-sized Swedish Cities from 1820 to 1970 – Destabilizing factors in stable growth**

The study will comprise a survey of 15–20 medium-sized Swedish cities from 1820 to 1970. Its aim is to examine conditions governing long-term stability and causes of instability.

**Rolf Ohlsson, Lund**  
**SEK 250 000**  
**Dnr: 87/154**

## **The Welfare Society in Transition – Changes in the Swedish labour market, education and fertility in the 20th century**

The aims of the project are 1) to study the main features of fertility trends in Sweden from 1919 to 1985, and 2) to study various aspects of demographic and educational changes in the same period. Labour market aspects will also be studied and comparisons made with conditions in England.

**Håkan Lindgren, Uppsala**  
**SEK 275 000**  
**Dnr: 87/173**

## **Commercial Banks in the 20th Century's Industrial Transformation**

The initial part of the study will examine the importance to commercial banks of bank–customer relationships. The second part will investigate the reason(s) why bank ownership of industrial enterprises has retained such vitality in various institutional contexts. The third part will comprise an analysis of the importance of commercial banks to industrial developments in the 20th century.

**Yury Napuch, Uppsala**  
**SEK 199 000**  
**Dnr: 87/268**

## **Economic Causes of Soviet Expansionism**

The project will entail an analysis of both Soviet and Western sources and attempt to elucidate the correlation between structurally induced resource shortages in the Soviet economy and expansionist tendencies in Soviet foreign policy.

**Olle Krantz/Lennart Schön, Lund**  
**SEK 200 000**  
**Dnr: 87/322**

## **Sectorial Interplay and Regional Changes in the Swedish Economy in the 19th and 20th Centuries**

The present project comprises three sub-projects. All will examine various aspects of the interplay between economic sectors and regional differences. The impact of institutional and economic policies will also be examined.

# Business Administration

**Ove Brandes, Linköping**  
**SEK 200 000**  
**Dnr 87/110**

## **Theory for Strategy and Control in Large, Divisionalized Companies**

The project's objective, utilizing a holistic approach, is to develop a theory on strategy, organization and control. Empirical study will be supplemented with interviews of company employees and articles submitted to international journals such as the Strategic Management Journal.

**Jan Johanson, Uppsala**  
**SEK 500 000**  
**Dnr: 87/121**

## **Sweden in the World. On the importance of indirect relations to international businesses**

This project will attempt to describe and analyze the importance of indirect relations to businesses with international operations. Parallel studies will be conducted in five European countries. The findings should be useful to international companies.

**Lars Lindkvist, Linköping**  
**SEK 129 000**  
**Dnr: 87/133**

## **Internal Capital Markets in Big Companies**

This project will be examining resource allocation and organization in big companies. It will contribute an operationalization and empirical test of Williamson's approach to internal capital transactions.

**Leif Melin, Linköping**  
**SEK 200 000**  
**Dnr: 87/313**

## **Strategic Change – Adaptation and revolution**

The main objective of this project is to increase knowledge about corporate changes in strategy over the years. More specifically, the project will investigate continuous strategic adaptation and the more abrupt changes in strategy as caused by different factors.

## Economics

**Bengt-Christer Ysander, Uppsala**  
**SEK 190 000**  
**Dnr: 87/160**

### **Flexibility, Efficiency and Technical Development in the Swedish Municipal Sector from 1960 to 1985 – An economic study**

The study's main purpose is to develop and implement a method for estimating longitudinal productivity in the service sector, a method utilizing input information instead of output information.

## Cultural Geography

**Lage Wahlström, Göteborg**  
**SEK 156 000**  
**Dnr: 87/4**

### **Mobilization and Development Processes in Rural Areas**

The project will examine 1) the integration of local mobilization and development processes with municipal planning, 2) interaction between different policy fields for rural areas, and 3) the development of theory and method for local mobilization processes in Scandinavia.

**Einar Holm, Umeå**  
**SEK 293 000**  
**Dnr: 87/68**

### **Peripheral Natural Resources – Dynamics in the economic and cultural geography of the Arctic**

The project will attempt to tabulate, refine and renew disparate theories on the factors governing resource utilization in peripheral areas. It will be restricted to study of non-renewable resources over the past 100 years.

**Hugh Beach, Uppsala**  
**SEK 450 000**  
**Dnr: 87/233**

### **Long-term Effects of the Chernobyl Accident on the Society and Culture of Sweden's Laplanders**

The project will document the effect of the Chernobyl nuclear accident on the living conditions, reindeer management and fishing of Sweden's Laplanders. It will also examine the impact on their culture, traditions and identity.

## Sociology

**Margareta Gisselberg, Umeå**  
**SEK 75 000**  
**Dnr: 87/71 PL**

### **Standing on Your Own Two Feet – Young families at the establishment stage**

This study will 1) examine the consumption patterns and living conditions of young households, 2) obtain information on resource patterns, social situations and economic behaviour, and 3) analyze correlations between social background, upbringing and training as regards the young family's ability to solve problems.

**Lowe Hedman, Uppsala**  
**SEK 300 000**  
**Dnr: 87/156**

### **The Role of Community Radio in Society**

The project will be analyzing the programming of two community radio stations on two occasions, before and after full-scale broadcasts begin so as to obtain information on the service's impact in various respects.

**Hedvig Ekerwald, Uppsala**  
**SEK 75 000**  
**87/225 PL**

### **The Cinema, TV and Video Generation. Dreams and reality for working class women**

This project will elucidate changes in the material and social circumstances of working class women and their vision of ideal family and inter-sex relationships.

**Ulf Himmelstrand, Uppsala**  
**SEK 200 000**  
**Dnr: 87/270**

### **A New Theoretical Framework for Research on Developments in Africa**

This study will attempt to devise a more adequate paradigm for social research in Africa so as to encourage the development of promising new approaches and projects.

## Statistics

**Anders H. Westlund, EFI**  
**SEK 300 000**  
**Dnr 87/75**

### **Econometric Analysis and Forecasting Changes in Economic Structure**

The aim of this project is to develop and assess a method for identifying and characterizing methods for forecasting changes in economic structure and for predicting when structural changes characterize observed economic patterns.

# Political Science

**Axel Hadenius, Uppsala**  
**SEK 300 000**  
**Dnr: 87/48**

## **Democracy and Polity**

The project will attempt to systematize and elucidate various theories on the spread of democratic systems. It will study the development of democracy in the U.S. and conduct a comparative investigation of democracy in England, Sweden, Germany and India.

**Lena Jonson, Göteborg**  
**SEK 260 000**  
**Dnr 87/92**

## **The Soviet Union's Policy Towards Sweden from 1955 to 1988**

The project will comprise a study of Soviet policies towards Sweden from 1955 to 1988 in the light of Soviet policy towards the Nordic region. This area also includes the U.S. which has military, economic and political links with it.

**Rutger Lindahl, Göteborg**  
**SEK 260 000**  
**Dnr 87/114**

## **Security Policy Opinion**

This study will examine the effect exerted by media coverage of security issues on the electorate's attitudes.

**Lennart Lundquist, Lund**  
**SEK 260 000**  
**Dnr: 87/136**

## **Political Democracy**

The aim of the project is to shed light on fundamental organizational problems in democracy. It will examine conservatism in Sweden's democratic outlook and attempt to identify the factors which determine whether democracy survives or collapses.

**Karl-Göran Algotsson, Uppsala**  
**SEK 250 000**  
**Dnr: 87/262**

## **The Law Council, Democracy and Rule by Law**

The project will examine the Law Council's statements and the public debate on the Law Council in the light of the relationship between democracy and a state ruled by law.

**Hans Blomkvist, Uppsala**  
**SEK 240 000**  
**Dnr: 87/335**

## **Democracy and Polity. Development of universalistic, rule-regulated bureaucracy**

Historical comparisons will be employed in comparing three different countries which ultimately acquired universalistic bureaucracies and one state which did not. The study will attempt to determine the mechanisms underlying the development of this bureaucracy, an important factor in democratic development.

## Education

**Göran Patriksson, Göteborg**  
**SEK 75 000**  
**Dnr: 87/97 PL**

### **What Happens after a Top Athlete's Career Comes to an End?**

Qualitative and quantitative data on a large number of representative subjects will be collected to ascertain what happens to top athletes after their careers come to an end.

**Bengt-Erik Andersson, Stockholm Teacher Training College**  
**SEK 300 000**  
**Dnr: 87/98**

### **Long-term Impact of Day Nurseries on School Age and Adolescent Children (FAST Project, Part 2)**

The project will follow up a previously examined group of subjects, now 13, and determine their present cognitive and social competency. Their emotional development may also be investigated. An additional follow-up will be conducted when the children are 16.

**Ingemar Fägerlind, Stockholm**  
**SEK 200 000**  
**87/370**

### **Children of the Thirties: Report from the Malmö longitudinal study of life patterns, education, health, and working life**

The aim of the project is to tabulate and analyze the results of research conducted from 1938 to 1987 in the longitudinal Malmö study.

## Psychology

**Lars-Göran Nilsson, Umeå**  
**SEK 185 000**  
**Dnr: 87/40**

### **Remembering Actions**

The project will study the principles governing the way actions are remembered, attempt to determine whether these principles differ from those governing the recollection of material and to ascertain whether any general theory is capable of explaining all kinds of memory.

**Arne Öhman, Uppsala**  
**SEK 180 000**  
**Dnr: 87/102**

### **One-year Follow-up of Heart Attack Patients Who Participated in a Psychological Rehabilitation Programme ("Heart & Lifestyle")**

The project will attempt to determine whether psychological treatment of heart attack patients has any impact on the medical aftermath compared to the aftermath in an untreated group of similar patients.

**Lars-Göran Öst, Uppsala**  
**SEK 200 000**  
**Dnr: 87/151**

### **Cognitive Theory for Anxiety Derangement: Cognitive, perceptual and psychophysiological parameters**

The aim of the project is to test aspects of the cognitive theory for anxiety derangement. Patients will be compared to a control group and given cognitively or physiologically oriented treatment in an experimental programme.



**Hans Bergman, Royal Caroline Institute**  
**SEK 73 000**  
**Dnr: 87/216**

**Alcohol and Brain Damage – A study employing magnetic resonance tomography and neuropsychological test methods**

The project will attempt to increase knowledge about the prevalence and nature of alcohol-induced damage to the brain and the impact of this damage on behaviour, alcohol consumption and clinical manifestations.

**David Magnusson, Stockholm**  
**SEK 400 000**  
**Dnr: 87/237**

**Individual Development and Environment: A long-term study of the lives of people in the light of their development in the interplay of psychological, social and physical factors**

The main objective of the project is to study the way in which individual characteristics and environmental factors independently and in concert govern a person's development from childhood to adulthood.

**Philip Hwang, Göteborg**  
**SEK 230 000**  
**Dnr: 87/352**

**Long-term Effects of Child-minding**

The aim of this follow-up project is to examine the long-term effects of different kinds of child-minding services and to study the children's social, emotional and cognitive development.

## Law

**Sture Bergström, Uppsala**  
**SEK 250 000**  
**Dnr: 87/49**

**Advance Notice in Income Taxation**

The project will examine advance notice procedures in income taxation. This option is very important to the planning of companies and private persons.

**Nils Börje Lihné**  
**SEK 20 000**  
**Dnr: 87/289**

**Summary Processes from the Legal Safety and Efficient Point of View**

The aim of the project is to elucidate the importance of summary processes to society in the light of previous research on legal mechanisms in summary processes.

# Medicine

**Anders Hamberger, Göteborg**  
**SEK 200 000**  
**Dnr: 87/21**

## **Preoperative Chemical Analysis of Epileptic Cerebral Cortex**

By introducing biochemical analysis of cerebral cortex the project will attempt to obtain knowledge about the mechanisms and pathophysiology in human epilepsy.

**Christer Alling, Lund**  
**SEK 240 000**  
**Dnr: 87/27**

## **Chronic Effects of Alcohol on Brain Cells, Cell Membranes and Receptors in Particular**

The aim of the project is to obtain basic, cell-level knowledge on e.g. the importance of drinking patterns, diet, sleep, etc. to alcohol dependency and the extent to which rehabilitation can be supported with medication with new, specific effects.

**Stig Nilsson, Göteborg**  
**SEK 142 000**  
**Dnr: 87/57**

## **Treatment of Prostate Cancer With Additional Alternative Medicine Therapies**

The project, operating on an interdisciplinary basis, shall test the effect of three important alternative medicine treatments on cancer of the prostate.

**Annica Dahlström, Göteborg**  
**SEK 225 000**  
**Dnr: 87/103**

## **Senile Changes in the Brain: Immune chemistry investigations if autoimmune mechanisms in neurodegenerative processes in Alzheimer's and Parkinson's diseases**

The project will attempt to determine if autoimmune mechanisms are involved in neurodegenerative processes in Alzheimer's and Parkinson's diseases.

**Per-Anders Rydelius, Royal Caroline Institute**  
**SEK 170 000**  
**Dnr: 87/249**

## **Children of Alcoholic Fathers – 30-year follow-up in a prospective study**

The aim of the project is to describe the natural history of children who grew up exposed to psychosocial stress, the difference between the development of boys and girls in particular.

**Lil I.A. Träskman-Bendz, Lund**  
**SEK 300 000**  
**Dnr: 87/257**

## **Suicidal Actions – A longitudinal, interdisciplinary study of a major social problem**

The study plans to study variations in suicidal behaviour, develop biochemical methods capable of grading the risk of suicide and to devise a system for maintaining contact with suicidal persons for the purpose of reducing their suicidal tendencies.

**Lars M. Gunne, Uppsala**  
**SEK 50 000**  
**Dnr: 87/258**

## **A Schizophrenic Composer's Means of Expression**

The work of the schizophrenic Swedish composer Jakob Adolf Hägg will be examined and analyzed in order to determine whether any useful material was produced during his illness and the extent to which schizophrenic stereotypes affected Hägg's creative idiom.

**Lars Lidberg, Royal Caroline Institute**  
**SEK 86 000**  
**Dnr 87/306 PL**

**Follow-up of a 1956 Study of Juvenile Delinquents: "Young Criminals" – their somatic and psychic development, as reflected in clinical, biochemical, neurological and psychosocial data**

This pilot study will evaluate the need for a supplementary follow-up of the 1956 study and ascertain how somatic and biological circumstances have affected the lives of the study's subjects.

**Rolf Håkansson, Lund**  
**SEK 290 000**  
**Dnr: 87/328**

**New Views on the Treatment of Osteoporosis – an increasingly widespread disorder**

An attempt will be made to synthesize a peptide, believed to stimulate osteoblast formation and conduct a large-scale test of its therapeutic effect on osteoporosis.

**Zsuzsanna Wiesenfeld-Hallin, Royal Caroline Institute**  
**SEK 280 000**  
**Dnr: 87/380**

**The Spinal Cord's Pain Mechanisms Examined with Behavioural, Electrophysiological and Pharmacological Techniques**

The proposed research will study the way in which neuropeptides and other neurotransmitters affect the spinal cord's nociceptive and certain other mechanisms.

## Natural Science

**Anders Lund, Linköping**  
**SEK 185 000**  
**Dnr: 87/29**

**Intermediary Compounds in Oxidation Processes**

The aim of the study is to examine chemical oxidation processes under conditions in which normally short-lived intermediary compounds can be isolated and described with respect to structure and reactions.

**Bent Schröder, Lund**  
**SEK 198 000**  
**Dnr: 87/59**

**Construction of a Bremsstrahlung Station at MAX and Design of a Multiwire Proportional Chamber for Use in Nuclear and Radio Physics**

The interdisciplinary project will design and build a bremsstrahlung station at MAX and develop competency in the multiwire proportional chamber field for use in nuclear and radio physics programmes linked to the MAX accelerator.

**Ulrik Lohm, Linköping**  
**SEK 250 000**  
**Dnr: 87/124**

**Long-term Accumulation of Environmental Pollutants**

The project will utilize a socioeconomic approach in an analysis of long-term accumulation of environmental pollutants.

**Jan Askne, Chalmers Institute of Technology**  
**SEK 500 000**  
**Dnr: 87/137**

**BEPERS-88**

The aim of the project is to perform measurements, in collaboration with Finnish and West German authorities, of ice properties in the Gulf of Bothnia so as to increase knowledge about the ability of space technology to monitor ice conditions.

**Jan Erik Kihlström/Per Eriksson, Uppsala**  
**SEK 125 000**  
**Dnr 87/182**

**The Effect of Persistent Environmental Toxins and Their Fatty Acid Conjugating Metabolites on the Cholinergic System of the CNS in Young and Adult Mammals**

The project will analyze the effect of fat-soluble environmental toxins on the cholinergic system in the brain of juvenile and adult animals when the substances are administered to the animals immediately after birth.

**Börje Johansson, Uppsala**  
**SEK 275 000**  
**Dnr: 87/200**

**Electron Structure in Solid Materials**

With the aid of electron structural calculations, the project will attempt to bridge some of the gaps between basic research and technology as regards materials and the performance of materials.

**Björn Ganning, Stockholm**  
**SEK 280 000**  
**Dnr: 87/220**

**An Aquatic Food Chain as a Model for Studies of the Transport, Enrichment and Metabolization of Polycyclic Aromatic Compounds (PAC) – An *in situ* study in the Stockholm Archipelago**

The main aim of this interdisciplinary project is to add new and important basic knowledge about aquatic ecotoxicology by *in situ* study of the way a relevant food chain metabolizes environmental pollution caused by Man.

**AnnMari Jansson, Stockholm**  
**SEK 260 000**  
**Dnr: 87/365**

**Environmental Changes and Fishing in the Baltic from an Integrated Ecological/Economical Point of View**

The project, utilizing an economic, historic and ecological perspective, will be analyzing the impact of Baltic pollution on fishing and the way this affects the economy of Baltic countries, Sweden in particular.

## Technology

**Michael Lindgren, Museum of Technology**  
**SEK 160 000**  
**Dnr: 87/202**

**Christopher Polhem's Manufacturing System: A study of Stjernsund Mill – an attempt at automatic mass-production in 18th century Sweden, its origin, consequences and relation to the American system of manufacturing**

The project will be analyzing the way Christopher Polhem's (1661–1751) ideas about industrial manufacturing arose and how they were put into practice at the Stjernsund Mill founded by him in 1699.

**Sven Torbjörn Lagerwall/Bengt Stebler, Chalmers Institute of Technology**  
**SEK 150 000**  
**Dnr: 87/368**

**New Video Display Units and Optical Processors Utilizing Ferroelectric Liquid Crystals**

The main aim of the project is to develop surface stabilized ferroelectric liquid crystal products, to test same in certain applications and to study/optimize FLC video display unit function.

## Humanities

**Gunnar Hillbom, Royal Academy of Letters, History and Antiquities**  
**SEK 220 000**  
**Dnr: 87/24**

**Fredman's Epistles and Songs. A historical investigation of a text**

The aim of the project is to trace the fate of the texts in Fredman's Epistles and Songs from composition to publication so as to facilitate preparation of satisfactory editions of these items.

**Torkel Jansson, Uppsala**  
**SEK 200 000**  
**Dnr: 87/55**

**The Growth of Municipalities in Nordic Countries. The public sector in rural areas, viewed from a social history point of view, from about 1800 to 1920**

This project will conduct a comparative analysis of the evolution and role of municipal authorities in Nordic countries.

**Sven Tägil, Lund**  
**SEK 190 000**  
**Dnr: 87/67 PL**

**National State in Crisis? Integration and division in Europe**

The aim of the project is to analyze the growth of different kinds of territorial identity and identification in Europe and will commence with a pilot study.

**Bengt Altenberg, Lund**  
**SEK 240 000**  
**Dnr: 87/58**

**English Speech Phraseology**

The project will conduct a study of frequent collocations in the London–Lund Corpus of Spoken English with special emphasis on word links and prefabricated terms reflecting the speaker's speech processes and text strategies.

**Ann-Sofie Ohlander, Uppsala**  
**SEK 340 000**  
**Dnr: 87/87**

**Women, Motherhood and Social Policy in Sweden from 1900 to 1945**

The aim of the project is to examine Swedish policies and the debate on women and motherhood from 1900 to 1945. The analysis will concentrate on poor and socially underprivileged mothers.

**Barbro Ståhle Sjönell, Stockholm**  
**SEK 146 000**  
**Dnr: 87/159**

**Catalogue of Strindberg Manuscripts in the "Green Bag" at the Royal Library**

The project will continue and complete work already started on identifying, describing and cataloguing Strindberg's literary and scientific manuscripts in the "green bag" collection at the Royal Library.

**Bengt Hansson, Lund**  
**SEK 125 000**  
**Dnr: 87/174 PL**

**Computer-based Representation of Human Knowledge**

This project will study the knowledge theory, psychological principles and logical principles required for designing computerized knowledge systems and applying them in some appropriate field.

**Marie Nisser, Ironmasters' Association**  
**SEK 195 000**  
**Dnr: 87/199 PL**

**Companies and Society in Transformation. Pilot study of two steelworks and mill towns: Munkefors and Hällefors**

This interdisciplinary pilot study will elucidate technical, economic and social changes in two mill towns with steelworks and the way in which companies, people and the towns are affected.

**Inger Rosengren, Lund**  
**SEK 415 000**  
**Dnr: 87/207**

**Language and Pragmatics**

The programme's aim is to produce a systematic description of pragmatics as an aspect of linguistic competency. It will comprise four projects conducted by 23 researchers from Sweden, the Federal Republic of Germany and the German Democratic Republic.

**Lennart Reimers, Stockholm**  
**SEK 110 000**  
**Dnr: 87/255**

**Music Teaching in Sweden in the 19th and 20th Centuries**

The project is the third stage of a project complex dealing with certain musical phenomena. It will investigate the music disseminated in the old Swedish elementary school from 1842 to the middle of the 1950's when a new school system was introduced.

**David Westerlund, Stockholm**  
**SEK 175 000**  
**Dnr: 87/275**

**Implications and Importance of the Islamic Revival in Africa, Black Africa in Particular**

The implications and importance of Islamic fundamentalism in different parts of Africa will be studied. A second part of the project will consist of a detailed study of the situation in Senegal, Nigeria and the Sudan.

**Gunilla Kjellman, Lund**  
**SEK 130 000**  
**Dnr 87/292**

**Material Cultural Patterns in the 20th Century World**

The aim of this project is to describe and discuss a number of common objects and analyze the cultural patterns created for these objects by Man.

**Gunilla Domellöf, Umeå**  
**SEK 50 000**  
**Dnr: 87/294 PL**

**Measured by Alien Standards. A pattern study of contemporary acceptance and the writing styles of female authors in selected novels from 1930 to 1935**

The project will conduct a pattern study of contemporary acceptance and the writing styles of female authors in selected novels from 1930 to 1935.

**Gösta Bruce, Lund**  
**SEK 260 000**  
**Dnr: 87/307**

**Contrastive, Interactive Prosody (KIPROS)**

This project will deal with the way prosody is employed in spoken interaction between people and utilize phonetic methods from a contrastive point of view for several European languages.

**Johan Sundberg, Royal Institute of Technology (Stockholm)**  
**SEK 230 000**  
**Dnr: 87/382**

**Analysis and Synthesis of Choir Sound**

The project will be tabulating and testing the knowledge hitherto acquired on the synthesis of choir sound so as to identify the acoustical characteristics of this sound.

## **Foundation Staff**

Professor Nils-Eric Svensson, Managing director

Anitha Asplund, Office Assistant

Inger Nyhlén, Programme Secretary, Committee 4

Inga-Lill Stenbeck-Ottoson, Accountant

Kerstin Stigmark, Programme Secretary, Committees 1 and 2

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