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A life in Science and Society — A bibliography of
Helge Gyllenberg 1945–2013

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Professor Helge Gyllenberg (Courtesy of Anton Gyllenberg)

PREFACE

Professor Helge Heimo Gideon Gyllenberg has a wide and manifold scientific and literary production spanning almost seventy years (1945–2013). He has also been an active player in the public debate, in particular on questions related to science policy. In addition, he has written biographies and memoirs and even a theatre play. We believe that it is of scientific and public interest that his publication list is preserved for posterity and we have therefore compiled this bibliography.

Helge Gyllenberg was born on the 4th of July 1924 and received his PhD from the Faculty of Agriculture and Forestry of the University of Helsinki, where he also made his academic career as a Professor of Microbiology. He was Assistant Professor 1948–1962, Associate Professor 1962–1970, Acting Professor 1970–1971, and Professor 1972–1988. He was the founder and first director (1989–1990) of the Institute of Biotechnology of the University of Helsinki.

From the mid-1960s onwards Helge Gyllenberg was a leading figure in forming Finnish science policy. In 1969–1970 he worked at the Finnish Ministry of Education, first as Head of the Science Office and then as Director General of the Department of Education and Science Policy. He was the President of the Central Board of the Academy of Finland 1974–1979. He has served as chairman or member of numerous national and international expert boards and committees. He was one of the founders and the first president of Kepa, the umbrella organisation for Finnish civil society organisations working with development cooperation. He held this position for ten years (1985–1994).

For more details on the career of Helge Gyllenberg we refer to the Finnish National Biography [4].

The bibliography is divided into three groups: I. Scientific publications, II. Policy, in particular science policy publications, and III. Other publications. Within each group the publications are ordered chronologically. Within each year the items are ordered as follows: Articles in international peer reviewed journals, articles written in Finnish or Swedish in domestic (or Nordic) journals (most of them peer reviewed), contributions to books (including contributions to conference proceedings), scientific monographs,

publications directed at societies of expertise, publications directed at the general public. This ordering differs from the most widely used ordering in bibliographies, in particular of writers of literary art, but is more apt in a bibliography of a scientist and writer of mainly non-fiction. It also follows the classification of the Research Database TUHAT at the University of Helsinki.

In many bibliographies of a specific person, the name of the person is omitted in the entries of the bibliography and in the case of multi-authored articles or books, the co-authors are mentioned within parentheses. In science the order of the contributing authors has a significance and we have therefore chosen to list, for all items, all the authors in the order they appear in the printed version of the text.

For each entry in the bibliography we have tried to give as complete a bibliographic description as possible including not only authorship but also publisher, place and year of printing, volume, edition, page numbers, ISBN-numbers, etc.. This has not always been possible. In particular in the case of contributions to older conference proceedings, the information is often incomplete. For well-established scientific journals we have deliberately omitted the ISSN-number as the journal and the articles therein can easily be found with the information we provide.

ISBN-numbers are given without hyphens, (e.g. ISBN-10:0839100183 instead of ISBN-10:0-8391-0018-3). The reason is that experience has told us that a publication is easier to find by a search engine using the unhyphenated version of the ISBN-number.

Following bibliographic praxis we have included important extra information not present on the title page of the publication within square brackets [].

The bibliography contains two indices: one with a list of all co-authors of Helge Gyllenberg and one with a list of all journals in which he has published. Both indices refer to the items of the bibliography.

In collecting the entries of the bibliography we started by searching the databases [5, 6, 7, 8, 9, 10, 11, 12]. These databases are quite reliable and combining data from different databases we succeeded in obtaining a complete bibliographic description for most of Helge Gyllenberg's scientific publications. The following three publications provided additional information: The invitation [1] to Helge Gyllenberg's inaugural lecture

contains a list of his publications up to 1972 compiled by himself. His official *Curriculum vitae* [2] held by the Academy of Finland contains a list of publications up to 1978 and the history [3] of the Department of Microbiology of the University of Helsinki 1937–1987 referred to papers by Helge Gyllenberg not listed in other databases. The lists in these three publications are, of course, not as reliable as the continuously updated electronic databases mentioned above. Whenever in doubt, we checked the actual publication, either online or in the library.

We also retrieved off-prints of original publications by contacting organisations and institutions that Helge Gyllenberg had been affiliated with during his career. He himself provided us with several clues as to where to look for items. His private library and archives were also helpful sources of information.

Finding Helge Gyllenberg’s papers directed at societies of expertise, technical reports and newspaper articles required hands-on field work, as many of these articles could not be found on the Web. A series of visits to The National Library of Finland was the obvious way to proceed. These visits were necessary also as they could help solving some unclear points. As the same publication is stored in many different locations, the corresponding bibliographic descriptions sometimes differed to some extent. These ambiguities could be settled by actually looking up the item at the National Library. This shows how the same item appearing in a variety of sources was both a helpful feature and a complicating factor of our work.

Despite serious efforts to find as many of Helge Gyllenberg’s publications as possible it is quite clear that our compilation is incomplete. We believe that we have found almost all of his scientific articles published in peer reviewed international journals. On the other hand, a large part of his production on science policy has appeared in documents published by organisations such as The Academy of Finland, UNESCO, OECD, etc. and in spite of modern search engines we have certainly missed a large fraction. Helge Gyllenberg is still, at the age of 89, writing every day and he has a large number of unpublished manuscripts that he might publish in the future.

To remedy the problem with the incompleteness of the bibliography, at least partly, we plan to publish a web-version of it in the future. This

version could be updated as more data are gathered and contain links to those publications by Helge Gyllenberg that are available on the web.

We have refrained from making any judgements on Helge Gyllenberg's production or drawing any conclusions about the importance of his scientific and public activities. This is not our task. But we do believe that Helge Gyllenberg is a remarkable person and that it would be worthwhile for an expert in the History of Science to write a scientific treatise on him. We sincerely hope that this bibliography will be of help in such an endeavour.

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