

Curriculum Vitae Henk F. Moed

Family Name: Moed
First Name: Henk
Middle Name: Floribert
Gender: Male
Date of birth: 25 June 1951
Place of birth: Weesp (the Netherlands, a small city at about 15 km from Amsterdam)

Education:

1957-1963 Primary school (lagere school): Dr. A. Plesmanschool, Weesp.
1963-1969 Secondary school (middelbare school): Vossiusgymnasium, Amsterdam (science/ β specialisation).
1969-1972 University of Amsterdam, Department (Subfaculteit) of Physics and Astronomy. Kandidaatsexamen (a degree obtained after 2.5 years of study) in Physics with subsidiary subjects Mathematics and Philosophy of Science, in May 1972.
1972-1978 University of Amsterdam, Department (Subfaculteit) of Mathematics and Computer Science. Master degree in Mathematics (specialisation: Mathematical Biology) with subsidiary subjects Physics and Environmental Science, in September 1978.

Command of languages:

Active: Dutch, English, Italian.
Passive: German, French, Spanish.

Professional career

1972-1976 Student-assistant, teaching experimental physics to first-year medicine students at the University of Amsterdam, Department of Physics and Astronomy.
1975-1978 Student-assistant, teaching topics in the field of 'Science, Technology and Society' to first-year physics students at the University of Amsterdam, Department of Physics and Astronomy.
1978-1981 Staff member in the 'Science, Technology and Society' programme at the University of Amsterdam, Department of Physics and Astronomy, giving teaching courses to both bachelor and master students.
1979 Part-time Mathematics teacher at the Vossiusgymnasium, Amsterdam.
1981-1985 Junior researcher at the Research Policy Unit of the Executive Board of Leiden University (the Netherlands), a part of the University Administration Department of Educational and Research Affairs.
1985-1986 Staff member of the Science and Technology Indicators Unit at the Advisory Council for Research Policy (RAWB, currently AWT), the Hague, the Netherlands.

- 1986-to-day Senior staff member at the Centre for Science and Technology Studies (CWTS), in the Department (Faculty) of Social Sciences at Leiden University.
- 1989 Ph.D. degree in Science Studies at the University of Leiden. Promotor: Prof. P. Vincken. Co-promotor: Prof. A.F.J. van Raan.

Major scientific/scholarly achievements

- Published over 50 research articles and letters in the journals *Scientometrics*, *Journal of the American Society of Information Science and Technology*, *Nature*, *Research Policy*, *Journal of Information Science*, *Research Evaluation*, *Journal of Documentation*, *Library Trends*, *R&D Management*, *Chemical Intelligencer*, *Current Science*, *Information Processing & Management*, *Higher Education*, *Science and Public Policy* and *European Journal of Cancer*.
- Supervised at CWTS many large projects commissioned and funded by external agencies, including the Netherlands Organisation for Scientific Research (NWO) Elsevier Science, the Ministry of the Flemish Community, The European Commission, and the Flemish Advisory Council for Research Policy.
- Associate editor of the journal *Scientometrics* as from 1990. Editorial Board member of the *Journal of Informetrics* as from 2007.
- Carried out internationally collaborative studies with colleagues from Flanders/Belgium, Hungary, the UK, Italy, the USA and Spain.
- Program Chair of the Fifth (Hinxton, UK, 1998) and the Sixth (Leiden, the Netherlands, 2000) International Conference on Science and Technology Indicators; Editor of the conference proceedings.
- Winner of the Derek de Solla Price Award in 1999. The Price Medal is periodically awarded by the journal *Scientometrics* to scientists who made outstanding contributions to the fields of quantitative studies of science (among previous winners: Eugene Garfield, Francis Narin, Robert K. Merton).
- Published several letters and commentaries in the journal *Nature*, about political relationships among countries in the Gulf region prior to the Gulf War (in 1991); journal impact factors (1996); the effects of funding upon research performance (1998, 1999); and about criteria for proper use of bibliometric indicators in research evaluation (2002).
- (Co-)Editor of the *Handbook of Quantitative Science and Technology Research: The Use of Publication and Patent Statistics in Studies of S&T Systems*, published by Kluwer/Springer in 2004.
- Published in 2005 a monograph, *Citation Analysis in Research Evaluation* (Springer, 346 pp.), which is one of the very few textbooks in the field, providing to a broad scientific/scholarly audience both technical information and a theoretical background, and proposing criteria for proper use of citation-based indicators in research evaluation.
- Program chair of the International Conference of the International Society for Scientometrics and Informetrics (ISSI) in Madrid, 25-27 June 2007. (Co-) Editor of the Proceedings of this Conference (900 pp.)

Main topics of interest during the past 5 years

- The creation, in close collaboration with several colleagues at CWTS, of a *bibliometric database* containing bibliographic data on all documents published from 1980 onwards, and processed by Thomson Scientific / Institute for Scientific Information for the Web of Science. A bibliometric database is a database primarily constructed to carry out all sorts of statistical analyses of bibliographical data.
- *Analysis of inaccuracies in citation matching*. Which major errors or discrepancies do occur, and how should one deal with these in order to obtain sufficiently accurate citation counts?
- *Journal impact factors*: what are their potentialities and pitfalls, pros and cons of the impact factors published by Thomson Scientific in the Journal Citation Reports? How can alternative measures be developed? Several suggestions for alternative measures were made in articles published in the serial literature.
- The development and application of science indicators for the measurement of research performance in the *basic natural- and life sciences*. In these domains of science and scholarship, the Web of Science has proven to have an excellent coverage. The methodologies were applied to numerous institutions and departments located in the Netherlands, Flanders (Belgium), UK, Italy, Sweden, Germany and several other countries. They are based on the notion that bibliometric indicators should be used as tools, supplementary to peer review, and that they cannot replace peer review.
- The use of bibliometric indicators as a tool *to assess peer review procedures* and to keep the peer review process honest. Citation analysis has its strengths and limits, and that the same is true for peer review. The challenge is to combine the two methodologies in a proper, productive way.
- The development and application of performance indicators in *social sciences and humanities*. There is evidence that in many subfields in these domains of scholarship the Web of Science's coverage of the literature is moderate. Alternative methodologies, using different data sources, need to be explored, in close collaboration with scholars who are active in the various subfields.
- Studies of the effects of 'Open Access' upon research impact, and studies of patterns in 'usage' (downloading) behaviour of users of electronic scientific publication warehouses such as Elsevier's ScienceDirect.

Recent important activities and achievements (2007-2008)

- Visiting scholar at the Departamento de Biblioteconomia y Documentacion at the University of Granada (Spain) during March-April 2007.
- Invited speaker at the Colloque sur la Évolution des publications scientifiques - Le regard des chercheurs (Evolution of Scientific Publications: the Point of View of Scientists), organised by the Académie des Sciences, Paris, 14-15 May 2007.

- Invited speaker at the 3rd Meeting of the International Ranking Expert Group (IREG-3), Shanghai Jiao Tong University, Shanghai, China, October 28 - 31, 2007.
- Project leader, active researcher and advisor in a series of projects funded by the Higher Education Funding Council for England (HEFCE) aimed to develop a 'metrics based' national research assessment exercise (RAE).
- Project leader, active researcher and advisor in a project exploring the potentialities of the use of Elsevier's SCOPUS database for evaluative-bibliometric purposes.
- Invited keynote speaker at a special Workshop Future Perspectives on the European Reference Index for the Humanities (ERIH), organised by the European Science Foundation in Granada (Spain), 19-20 November 2007.
- Program Co-Chair, 10th International Conference on Science and Technology Indicators 2008, Vienna, Austria, 17-20 September 2008.
- Co-promotor (with F. de Moya-Anegón) of the PhD thesis of Carmen López-Illescas, University of Granada, Granada, Spain, 15 October 2008.

Colleagues who made important contributions to the articles written by – and the projects carried out by – Henk F. Moed during the past 5 years

- Anthony van Raan, professor of Science Studies, Director of CWTS;
- Thed van Leeuwen, senior staff member at CWTS;
- Ed Noyons, senior staff member at CWTS;
- Martijn Visser, researcher at CWTS;
- Clara Calero-Medina, researcher at CWTS;
- Anton Nederhof, senior researcher at CWTS;
- Peter Negenborn and Erik van Wijk, technical staff members at CWTS;
- Marc Luwel, Ministry of the Flemish Community, Belgium;
- Jan Reedijk, professor of Chemistry, Leiden University, the Netherlands;
- Wolfgang Glänzel, Steunpunt O&O Statistieken / Katholieke Universiteit Leuven, Leuven, Belgium.
- Eugene Garfield, Honorary President, Institute for Scientific Information, Philadelphia, USA.
- Eugene Stanley and Kaushik Matia, Boston University, USA.
- Abraham Bookstein, University of Chicago, USA.
- Daniel Torres-Salinas, University of Navarra and University of Granada, Spain.
- Carmen López-Illescas, University of Granada, Spain.
- Félix de Moya-Anegón, University of Granada, Spain.