

Selected Scientific Publications

(Books, Journal Articles)

by

Gerhard K. Heilig

The following selection includes scientific publications concerning demographic and China-related research, as well as work focusing on rural development, agriculture, and food security.

- Heilig, G.K. (2003): Information society and the countryside: can Internet-based systems bring income alternatives to rural areas? In: Banski, Jerzy / Owsinski, Jan (Eds.): Alternatives for European Rural Areas. Vol. 1. Warswa (European Rural Development Network, Institute of Agricultural and Food Economics, Institute of Geography and Spatial Organization, Polish Academy of Sciences) , 65-79
- Heilig, G.K. (2003): Ressource Mensch wird knapp. In: Agrarische Rundschau, 2/2003, 29-35
- Heilig, G.K. (2002): Multifunctionality of Landscapes and Ecosystem Services with Respect to Rural Development. In: Helming, K. / Wiggering, H. (Eds.): Sustainable Development of Multifunctional Landscapes. Berlin, New York (Springer Verlag)
- Heilig, G.K. (2002): China's Changing Land: Population, Food Demand, and Land Use in China. In: José A. de Cruz (Ed.): Geography: A World Geography Regional Reader. Boston (Pearson Custom Publishing)
- Heilig, G.K. / Reidinger, Richard / Yang, Xiaoliu / Yan, Jingsong / Hu, Ying (2000): Water eco-development strategies in China. In: Rusong Wang / Hongzun Ren / Zhiyun Ouyang (Eds.): China Water Vision. The Eco-sphere of Water, Life, Environment, and Development. Beijing (China Meteorological Press, Foreign Language book, No. 120)
- Heilig, G.K. / Fischer, G. / van Velthuisen, H. (2000): Can China feed itself? An analysis of China's food prospects with special reference to water resources. In: The International Journal of Sustainable Development and World Ecology, Vol. 7, 153-172
- Heilig, G.K. / Fischer, G. (1997): Population momentum and the demand on land and water resources. In: Philosophical Transactions of the Royal Society, London, Series B, Vol. 352, 869-889
- Heilig, G.K. (1997): Sustainable Development – ten arguments against a biologicistic ‘slow-down’ philosophy of social and economic development. In: The International Journal of Sustainable Development and World Ecology, Vol. 4, No. 1, 1-16
- Heilig, G. K. (1997): Anthropogenic Factors in Land-use Change in China. In: Population and Development Review, Vol. 23, No. 1, 139-168
- Heilig, G.K. (1996): Who is Changing the Land? Lifestyles, Population, and Global Land-use Change. In: Ramphal, S. / Sinding, S.W. (Eds.): Population Growth and Environmental Issues. Westport, London (Praeger), 109-128
- Heilig, G.K. (1996): How many people can be fed on earth? In: Lutz, W. (Ed.): The Future Population of the World: What Can We Assume Today? London (Earthscan), Revised and Updated Edition, 196-249
- Heilig, G.K. (1995): Neglected Dimensions of Global Land-use Change: Reflections and Data. In: Population and Development Review, Vol. 20, No. 4, 831-859
- Heilig, G.K. (1994): The Greenhouse Gas Methane (CH₄): Sources and Sinks, the Impact of Population Growth, Possible Interventions. In: Population and Environment, Vol. 16, No. 2, 109-137
- Galler, H. / Heilig, G.K. / Steinmann, G. (Hrsg.) (1994): Acta Demographica, 1993. Heidelberg (Physica Verlag)
- Heilig, G.K. (1993): Der Einfluß grenzüberschreitender Migration auf die Bevölkerungsstruktur. Ergebnisse von Simulations-Studien zur Migration nach West-Europa. In: Schäfers, B. (Ed.): Lebensverhältnisse und Soziale Konflikte im Neuen Europa. Verhandlungen des 26. Deutschen Soziologentages in Düsseldorf 1992. Frankfurt (Campus), 135-144

- Heilig, G.K. (1993): Food, Lifestyles, and Energy. In: van der Heij, D.G. (Ed.): Food and Nutrition Policy. Proceedings of the Second European Conference on Food and Nutrition Policy. The Hague, Netherlands, 21-24 April 1992, Wageningen (Pydoc), 60-86
- Heilig, G.K. (1992): Crises: Demographic Causes and Consequences. In: Acta Demographica, Vol. 3, 57-80
- Buttler, G.K. / Heilig, G.K. / Schmitt-Rink, G. (Hrsg.) (1992): Acta Demographica, 1992. Heidelberg, Physica Verlag
- Lutz, W. / Prinz, Ch. / Wils, A.B. / Büttner, Th. / Heilig, G.K. (1991): Alternative Demographic Scenarios for Europe and North America. In: Lutz, W. (Ed): Future Demographic Trends in Europe and North America. What can we assume today? London et al. (Academic Press) p.523-563 (First Edition)
- Heilig, G.K. (1991): The Possible Impact of AIDS on Future Mortality. In: Lutz, W. (Ed): Future Demographic Trends in Europe and North America. What can we assume today? London et al. (Academic Press) p.71-95 (First Edition)
- Heilig, G.K. / Prinz, Ch. (1990): Modellrechnungen zur Gliederung der Bevölkerung in der Bundesrepublik Deutschland nach dem Familienstand, 1970-2030. In: Acta Demographica, Bd. 1, 85-108
- Heilig, G.K. / Büttner, T. / Lutz, W. (1990): Germany's Population: Turbulent Past, Uncertain Future. Population Bulletin, Vol. 45, No. 4 (Special Thematic Issue)
- Heilig, G.K. (1990): Wissenslandschaften statt Daten-Berge! Überlegungen zum Informationsproblem in der Sozialwissenschaft. In: Deutscher Dokumentartag, 1989. Informationsmethoden: Neue Ansätze und Techniken. Proceedings. Frankfurt (Deutsche Gesellschaft für Dokumentation)
- Grübler, A. / Büttner, T. / Heilig, G.K. (1990): Eigendynamik. Die Folgen der DDR-Eingliederung. In: Bild der Wissenschaft, Heft 11, Podium, 136-139
- Heilig, G.K. / Wils, A. (1989): AIDS costs more "Years of Potential Life" before age 65 than Diabetes, TBC, or Viral Hepatitis! Patterns of Premature Mortality in Switzerland, Austria, and the Federal Republic of Germany. In: POPNET, No. 15, 1-8
- Heilig, G.K. (1989): Gibt es demographische Auswirkungen der AIDS-Epidemie in der Bundesrepublik Deutschland? In: Zeitschrift für Bevölkerungswissenschaft, Jg. 15, Heft 3
- Steinmann, G. / Zimmermann, K.F. / Heilig, G.K. (Hrsg.) (1988): Probleme und Chancen demographischer Entwicklungen in der Dritten Welt. Berlin, Heidelberg, New York, Tokyo (Springer Verlag)
- Heilig, G.K. (1988): AIDS in Afrika: Ursachen und Perspektiven. In: Hofmeier, R. (Hrsg.): Afrika Jahrbuch, 1987. Politik, Wirtschaft und Gesellschaft in Afrika südlich der Sahara. Opladen (Leske und Budrich) 41-54 (Institut für Afrika-Kunde, Hamburg)
- Heilig, G.K. / Lutz, W. / Wolf, D. (1987): Aging and the Family. In: POPNET, No. 11, 1-6
- Heilig, G.K. / Krebs, T. (1987): Bevölkerungswachstum und Nahrungsversorgung in Schwarzafrika. Modellrechnungen zur künftigen Entwicklung. In: Zeitschrift für Bevölkerungswissenschaft, Jg. 13, No. 1, 81-119.
- Heilig, G.K. (1987): Demographische und soziale Aspekte der AIDS Pandemie in Afrika südlich der Sahara. In: Afrika Spectrum, Vol. 22, No. 1, 23-45. (in German)

- Heilig, G.K. (1986): Probleme bei der Beschaffung von Daten aus amtlichen Statistiken. Überlegungen aus der Sicht einer demographisch interessierten Sozialwissenschaft. In: Zeitschrift für Soziologie, Vol 15, No. 3, 221-229.
- Kiefl, W. / Heilig, G.K. (1985): Bevölkerungswissenschaftliche Lehre an Universitäten in der Bundesrepublik Deutschland: Erste Ergebnisse einer neuen Erhebung. In: Mitteilungen der Deutschen Gesellschaft für Bevölkerungswissenschaft, Vol. 65, 35-54.
- Heilig, G.K. (1985): Heiratsalter und Fruchtbarkeit bei deutschen Ehepaaren. Wiesbaden, Bundesinstitut für Bevölkerungsforschung, Materialien zur Bevölkerungswissenschaft, Volume 40
- Heilig, G.K. (1985): Die politische und prognostische Tragweite von Längsschnittstudien zum generativen Verhalten aus der Bundesrepublik Deutschland und Österreich. In: Schmid, J. / Schwarz, K. (eds.): Politische und Prognostische Tragweite von Forschungen zum generativen Verhalten. Berlin (Deutsche Gesellschaft für Bevölkerungswissenschaft), 225-254
- Heilig, G.K. (1985): Die Heiratsneigung lediger Frauen in der Bundesrepublik Deutschland, 1950-1983. Eine quantitative Analyse mit Hilfe vereinfachter perioden- und kohortenspezifischer Heiratstafeln. In: Zeitschrift für Bevölkerungswissenschaft, Jg. 11, Heft 4, 519-547
- Heilig, G.K. (1985): Überbevölkerung und Hunger in der Dritten Welt. In: Der Junge Beamte, Volume 5, 14-16.
- Heilig, G.K. (1985): The Population of Indonesia. An Annotated Bibliography with a Review of Recent Demographic Trends. Berlin (Dietrich Reimer Verlag)
- Heilig, G.K. (1984): Das Städtewachstum in der Dritten Welt. In: Opitz, P. (ed.): Die Dritte Welt in der Krise. Grundprobleme der Entwicklungsländer. Munich, 186-207 (C.H. Beck-Verlag; 1985 2nd updated edition)
- Heilig, G.K. (1984): Schülereinstellungen zum Fach Erdkunde. Geographiedidaktische Forschungen, Volume 10, Berlin (Dietrich Reimer Verlag)
- Heilig, G.K. (1983): Bildung und Anwendung nichtmetrischer Modelle in der Bevölkerungswissenschaft (GSK-Ansatz). In: Zeitschrift für Bevölkerungswissenschaft, Jg. 9, No. 4, 447-474.
- Heilig, G.K. / Schrettenbrunner, H. (1982): Erfahrungsbericht: Empirische Forschung in der Didaktik der Geographie. In: Geographie und ihre Didaktik, Vol. 10, No. 3, 114-134.
- Heilig, G.K. (1980): Die Faktorenanalyse als ein vorbereitendes Verfahren zur Bildung homogener Regionen mehrdimensionaler Definition. In: Karlsruher Manuskripte zur Mathematischen und Theoretischen Wirtschafts- und Sozialgeographie, Vol. 39.
- Heilig, G.K. (1980): Einführung in statistische Verfahren. In: Der Erdkundeunterricht, Vol. 35, 8-30.

Conference Papers and Invited Lectures

by

Gerhard K. Heilig

The following selection includes conference papers, key-note speeches and invited lectures at international conferences and workshops since 1997 with relation to demographic and China-related research.

- Workshop: **Workshop on Urbanization at Tongji University, Shanghai, China, October 11-16, 2004.**
 Organizer: Tongji University and Eurasia-Pacific UNINET, Salzburg, Austria.
 Presentation title: Is China Facing and Urban Explosion? Trends and scenarios in rural-urban migration.
- Conference: **International Symposium on Environmental Protection and Sustainable Development in West China, in Xian, China, May 21-23, 2004.**
 Organizer: Associations for Science and Technology of the Provinces Shaanxi, Gansu, and Qinghai, and the autonomous regions of Xinjiang, Ningxia, and Inner Mongolia in cooperation with the China Association for Science and Technology (CAST).
 Presentation title: Dimensions of Regional Development in China: An investigation of regional diversity with the "Regional Analysis and Planning System" (RAPS-China).
- Invited lecture: **Research Center for Eco-Environmental Sciences (RCEES), Chinese Academy of Sciences (CAS), Beijing, May 14 - 20, 2004**
 Organizer: Prof. Rusong Wang
 Title: Dealing with Eco-complexity in China – Social, Economic, Natural Dimensions.
- Invited lecture: **China Agricultural University, Beijing, December 15-16, 2003**
 Organizer: Prof. Cheng Xu, Department of Agro-Ecology and Sustainable Agriculture, College of Agronomy and Bio-Technology
 Title: China's Food Security. Presentation of the ChinaFood CD-ROM.
- Conference: **Symposium on the "Frontier Problems of Human Geography", University of Nanjing, Nanjing, China, December 9-12, 2003**
 Organizer: National Natural Science Foundation of China (NSFC), Department of Urban and Resource Sciences, University of Nanjing
 Presentation title: RAPS-China: Development of a Regional Analysis and Planning System
- Invited lecture: **Invited Lecture at the Graduate School for Agricultural and Life Sciences, Department for Environmental and Biological Engineering, Laboratory for Land Resources Research, University of Tokyo, October 17-21, 2003**
 Organizer: Prof. Yohei Sato, Dr. Meinhard Breiling
 Title: China's Rural Development: Problems, Analytic Tools and Strategies.
- Conference: **International Symposium on Food Safety: Consumer, Trade, and Regulation Issues, Hangzhou, Zhejiang, China, October 8-11, 2003**
 Organizer: Center for Agricultural and Rural Development (CARD), Zhejiang University, Department of Agricultural Economics
 Presentation title: Do We Really Care about Food Safety? Facts and Myths about Consumers' Preferences.
- Conference: **4th ECOLINK Workshop: Eco-Sites, Eco-Centers and the Implementation of European Union Environment and Sustainable Development Policies. Ecosite du Pays de Thau, Meze (Montpellier), France, September 17-19, 2003**
 Organizer: ECOLINK, a 5th Framework Programme for Research and Development Project
 Presentation title: Rural Development or Sustainable Development in China: Is China's Rural Development Sustainable?

- Invited lecture: **Invited Lecture at the Institute for Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, December 17-23, 2002**
Organizer: Prof. Xiubin Li, Deputy Director
Title: Dimensions of China's Food Security. A presentation with the ChinaFood CD-ROM.
- Invited lecture: **Center for Agricultural and Rural Development (CARD), Hangzhou, Zhejiang University, China, December 10-17, 2002**
Organizer: Prof. Wencong Lu
Title: China's Food Security. A presentation with the ChinaFood CD-ROM.
- Conference: **International Symposium on LUCC Contribution to Asian Environmental Problems. Science Council of Japan, Tokio, December 13-15, 2001**
Organizer: Prof. Yohei Sato
Presentation title: Land-use Change as a Factor in China's Food Security.
- Conference: **IIASA-Day in Helsinki, Finland. May 4, 2001**
Organizer: Prof. Pekka Kaupi
Presentation title: Changing Land-use and Rural Development: The Case of China and the Case of Europe.
- Invited lecture: **Institute of Geography, University of Copenhagen, Denmark, February 13, 2001**
Organizer: Dr. Stefan Anderberg
Title: IIASA Research on China's food Security. Presentation of the ChinaFood CD-ROM.
- Invited lecture: **China-IIASA Day. National Natural Science Foundation of China (NSFC), Beijing, China, December 5, 2000**
Organizer: Prof. Siwei Cheng
Title: New Types of Decision Support Systems for Political Planners: Using the ChinaFood CD-ROM as an Example.
- Invited lecture: **Center for Chinese Agricultural Policy (CCAP), Chinese Academy of Sciences (CAS), Beijing, China, November 27, 2000**
Organizer: Prof. Jikun Huang
Title: Presentation of the ChinaFood CD-ROM.
- Invited lecture: **University of California, Gifford Center for Population Issues, Davis, USA, May 5, 2000**
Organizer: Prof. Cathryn Dewey
Title: Environmental Conditions and Food Security in China.
- Participation: **Workshop on Gridding Population Data. Columbia University, New York, USA, May 2-3, 2000**
Organizer: Prof. Cathryn Dewey
- Invited lecture: **University of Lund, Sweden, April 28, 2000**
Organizer: Prof. Tommy Bengtsson
Title: Presentation of ChinaFood CD-ROM.

- Invited lecture: **Swedish Council for Planning and Coordination of Research, Stockholm, Sweden, April 27, 2000**
Organizer: Prof. Uno Svedin
Title: Can China Feed Itself? Presentation of ChinaFood CD-ROM.
- Invited lecture: **University of Melbourn, Department of Geography and Environmental Studies, Melbourne, Australia, April 18, 2000**
Organizer: Prof. Michael Webber
Title: Can China Feed Itself? Presentation of ChinaFood CD-ROM.
- Invited lecture: **University of Adelaide, National Key-Center for Social Applications in GIS, Adelaide, Australia, April 13, 2000**
Organizer: Prof. Graeme Hugo
Title: Can China Feed Itself? A GIS Assessment. Presentation of the ChinaFood CD-ROM.
- Invited lecture: **Griffith University, Australian Center of the Asian Spatial Invmormation and Analysis Network, Brisbane, Australia, April 11, 2000**
Organizer: Prof. Larry Crissman
Title: Can China Feed Itself? Presentation of the ChinaFood CD-ROM.
- Invited lecture: **Environment Australia, Canberra, Australia, April 7, 2000**
Organizer: Dr. Anthony Brinkley
Title: Can China Feed Itself? Presentation of the ChinaFood CD-ROM.
- Invited lecture: **Sinclair, Knight and Merz (SKM), Natural Resource Management, Melbourne, Australia, April 3, 2000**
Organizer: Dr. Anthony Brinkley
Title: Can China Feed Itself? Presentation of the ChinaFood CD-ROM.
- Invited lecture: **Wirtschaftsuniversität Wien, Interdiscipliäres Institut für Asienstudien, Vienna, Austria, March 28, 2000**
Organizer: Prof. Herwig Palme
Title: Can China Feed Itself? Presentation of the ChinaFood CD-ROM.
- Conference: **Second World Water Forum and Ministerial Conference, The Hague, Netherlands, March 17-22, 2000**
Organizer: World Water Council, Session Organizer: Prof. Rusong Wang
Presentation title: Can China Feed Itself? An Analysis of China's Food Prospects with Special Reference to Water Resources.
- Training Meeting: **United Nations Population Division, Traing Meeting on Population, Environment, and Development, New York, USA, January 26, 2000**
Organizer: Dr. Joseph Chamie
Lecture: Can China Feed Itself? Food Security and Development in China.
- Invited lecture: **Central Research Institute of Electric Power Industry (CRIEPI), Tokio, Japan, November 30, 1999**
Organizer: Dr. Koji Nagano
Title: Can China Feed Itself? Presentation of the ChinaFood CD-ROM.

Invited lecture: **Kyoto University, Kyoto, Japan, November 26, 1999**
Organizer: Prof. Satoshi Hoshino
Title: Can China Feed Itself? Presentation of the ChinaFood CD-ROM.

Invited lecture: **International Symposium on Soft Science, Guangzhou, China, November 17-19, 1999**
Organizer: Dr. Wang Yan
Title: An Integrative Assessment of China's Food Security. Presentation of the ChinaFood CD-ROM.

Invited lecture: **Seminar on China 2050, University of Turku, Finland, October 14, 1999**
Organizer: Prof. Juha Karjalainen
Title: Presentation of the ChinaFood CD-ROM.

Conference: **Annual Meeting of the Population Association of America (PAA), New York, March 25-27, 1999**
Organizer: PAA
Presentation title: Can China Feed Itself in 2050? New Evidence from Recent Data on Cultivated Land.

Conference: **23rd General Population Conference. Beijing, China, October 10-15, 1997**
Organizer: International Union for the Scientific Study of Population (IUSSP) and State Family Planning Commission of China
Presentation title: Presentation of the DemoGraphics '96 Software Package for Population Education and Research.

Conference: **Scope for Sustainable Food Production in China, Fridtjof-Nansen Institute, Forum for Norwegian China Competence, Oslo, Norway, June 10, 1997**
Organizer: Dr. Joerund Buen
Presentation title: How Much Food Will China Need? Results From a Modelling Exercise.