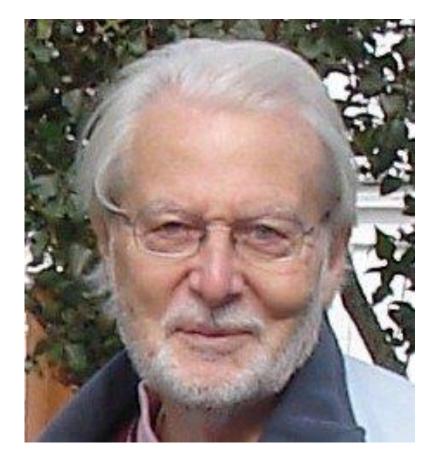
"Survey statistics is cool and hot" – remembering Gunnar Kulldorff



Danutė Krapavickaitė Vilnius Gediminas Technical University Imbi Traat University of Tartu

Workshop of Baltic-Nordic-Ukrainian Network on Survey Statistics August 21-24, 2018, Jelgava, Latvia

Outline

- Getting acquainted with Gunnar Kulldorff
- Scientific cooperation visits to Umeå University
- Creation of the BNU and its events
- Personality of Gunnar
- Gunnar's family
- Final words

Gunnar's slides in Summer School: Minsk, June 14-18, 2013 (99 slides, last participation and talk)

We use some of these slides



Opening Address

The Statistical Science Is International

– And Survey Statistics Is Cool and Hot **Survey Statistics Is Cool**

Intellectually, Educationally and Professionally

- Challenging theory, concepts and mathematics
- Smart expertise for planning and implementation of surveys
- Accurate and honest analysis of survey results

Survey Statistics Is Hot

Economically and Politically

- Business and stock markets are influenced by economic surveys
- Governments are influenced by economic and social surveys
- Elections are influenced by surveys describing progress and problems in the country

Getting acquainted with Gunnar Kulldorff

1991 re-independence of Baltic countries

1991 Gunnar visits Baltic countries

Seminar in Tartu

Proposes possible cooperation areas with Umeå University

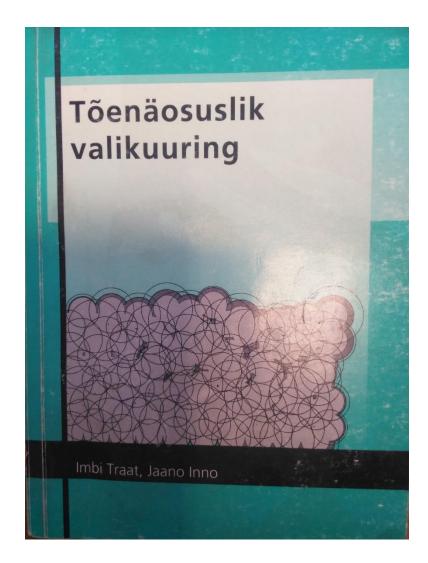
- Survey sampling
- Survival analysis
- Quality control

Cooperation between Baltic and Nordic countries in survey statistics has begun Imbi 1992 Jānis 1994



What we did there?

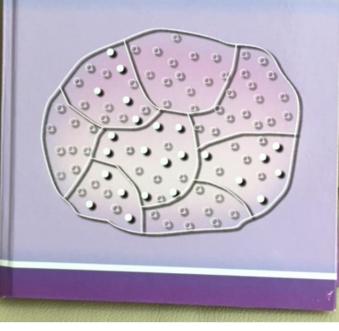
- Learning SS from Gunnar's lectures
- Preparing my own course for Tartu in SS (1993)
- Obtaining new ideas for teaching, for supervisisng
- Writing a textbook in survey sampling (1997)
- Introducing ohter new cources in Tartu inspired by visits

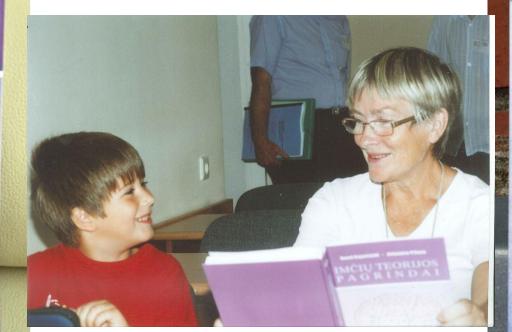


Textbook by Danute and Aleksandras 2005 Textbook by Olga Vasylyk and Tetyana Yakovenko 2010

Danutė Krapavickaitė • Aleksandras Plikusas

IMČIŲ TEORIJOS P A G R I N D A I



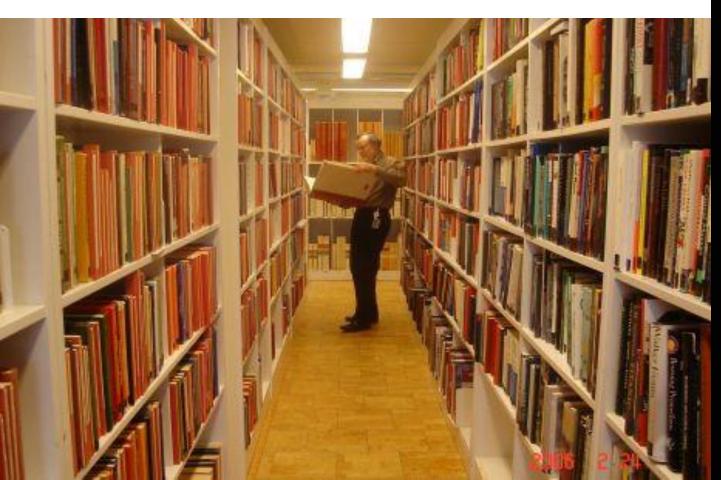




О. І. ВАСИЛИК Т. О. ЯКОВЕНКО

ЛЕКЦІЇ З ТЕОРІЇ І МЕТОДІВ ВИБІРКОВИХ ОБСТЕЖЕНЬ

Umeå University library The Northen lights





Room for guests, Gamlia





Impressions of Umeå University

- Rich Library, important in those days
- Gunnar took care of ordeing sampling books and journals
- All day round entry to the building and necessary rooms
- Lunch room, free coffee, fruits
- Working conditions for University teachers and guests
- Easy communication between University teachers and students
- Gunnar shares facilities of his University with the guests and says: *"I'll never stop"*

Guests were invited to the Department's events, also to Gunnar's home

Planeringsdagar



In back yard of Gunnar and Barbro



Visitors, visits and visit days at the Umeå University by country

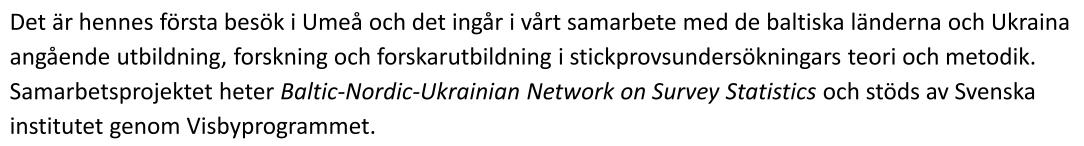
Country	Timing	Visitors	Visits	Days
Estonia	1992-2010	10	41	1431
Latvia	1994-2011	19	31	838
Lithuania	1998-2011	14	30	847
Ukraine	1994-2012	15	28	883
Belarus	2010-2012	5	6	160
Total	1992-2012	63	136	4159



UMEÅ UNIVERSITET Matematisk statistik Gunnar Kulldorff

Gästforskare från Ukraina: Nataliya Semenovska

besöker oss under perioden 7-30 april.



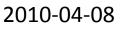
Nataliya föddes 1980 i Kyiv i Ukraina och tog doktorsexamen i fysik och matematik

Gunnar Kulldorff

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An example of the information letter about a visitor to the Department







Beginning of the Network 1996

- First, a Baltic-Nordic Network, later extended to Ukraine and Belarus. The aim
- Long-term cooperation on education and research in survey statistics
- Exchange of knowledge, experiences and ideas
- Strengthen contacts between university teachers, students, researchers and practitioners
- Between academic institutions and national statistical agencies
- Promote interest among students and motivate them to choose survey statistician as their professional career

First Summer School June 26 – July 2, 1997 in Tartu



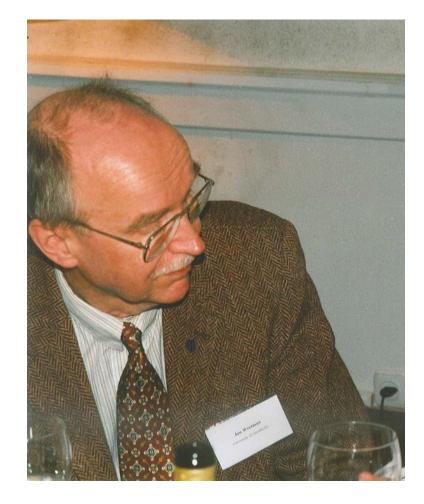
Organizing Committee, Tartu 1997 Vision of Gunnar

Organizing Committee, Jurmala 1998

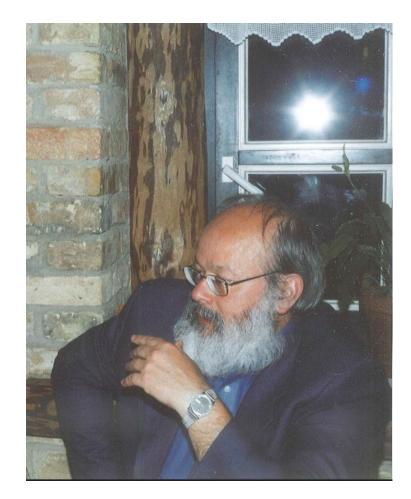


Main lectures, always well-known

Jan Wretman, 1998



Ray Chambers, 2005



Other important lecturers

Yves Berger, Jean-Claude Deville, 2011

Risto Lehtonen, Isabel Molina, 2014



Kuressaare 2000



Entertainment always belongs to farewell party, Kuressaare 2000



Tallinn, 2014

Song contest

n



34 Doctoral dissertations have been defended in the Network

https://wiki.helsinki.fi

Defendant: Pauli Opponent: Aleksandras Chair: Seppo Supervisor: Imbi



Number of Bachelour and Master theses in Baltic written in Baltic universities during 1995-2013

Country	Bachelour	Master	Total
Estonia	31	15	46
Latvia	34	9	43
Lithuania	75	45	120
Total	140	69	209

Number of graduation thesis on survey statistics in Belarus and Ukraine universities during 2003-2013

Country	Bachelour	Specialist	Master	Diploma	Total
Belarus	—	—	-	5	5
Ukraine	8	3	7	_	18
Total	8	3	7	5	23

Events

- 22 Network events have been organized during 1997-2018. Their aim can be shortly formulated as exchange of knowledge between generations, because knowledge of participants varies from beginners to experts without any limits for age.
- 4 Summer Schools on Survey Sampling Theory, Methodology and Practice: 1997 in Tartu (49 participants), 2009 in Kyiv (48 participants), 2013 in Minsk (32 participants), 2016 in Kyiv, totally ~170 participants, have been held up.
- 14 Workshops on Survey Sampling Theory and Methodology with totally ~560 participants.
- 4 conferences Ammarnäs 2002, Kuusamo 2007, Norrfällsviken 2011, Helsinki 2015

Where will be next conference?

- Gunnar asked me in Minsk (2013) to promise to organize a conference BaNoCoSS in 2019. I promised.
- The next BaNoCoSS in 2019 will be held in Sweden, as it has to be according to the natural order of the events.

Attraction of statisticians to survey statistics

- International Vilnius Conferences on Probability theory and mathematical statistics 2006, 2010 – section on survey sampling
- International Conference. Computer Data Analysis and Modeling, Minsk, 2007 – presentations of the Network members on survey sampling
- Picturesque invitations

International Vilnius Conference 2006 with Survey Sampling

Dear Survey Statistician,

May I offer you an exciting conference proposal this year?

Would you like to meet and listen to the following invited speakers?

• Jon Rao from Carleton University in Canada (http://lrsp.carleton.ca/directors/rao/)on Analysis of Survey Data:

Recent Developments

Alastair Scott from the University of Aukland in New Zealand (<u>http://www.stat.auckland.ac.nz/showperson?firstname=Alastair&surname=Scott</u>) on *The Design and Analysis of Two-Phase Analytic Surveys* Mary Thompson from the University of Waterloo in Canada (<u>http://www.stats.uwaterloo.ca/</u>stats_navigation/Faculty/Thompson.shtml) on *Modelling Transitions with Survey Data*







•••••

Welcome to the 9th Vilnius Conference and its session on Survey Sampling! *Gunnar Kulldorff* Organizer of the session on Survey Sampling gunnar@matstat.umu.se

Gunnar Kulldorff 1927-2015

- Born in Malmö, Sweden
- 1954 licentiate degree from Dept. of Statistics, Lund university
- 1961 PhD Contributions to the theory of estimation from Grouped and partially grouped Samples. Supervisors C.-E. Quensel, H.Cramér. His thesis republished by Wiley & Sons and by he Soviet Union in a Russian translation.
- 1965 professor of statistics at the newly established Umeå University;
 1966 professor of mathematical statistics.
- Devoted to promotion of statistics at the international level. Elected to the International Statistical Institute in 1968, vice-president 1981-1985, president elect 1987-1989, president 1989-1991.
- 1991 visit to the Baltic countries, initiated scientific exchange program between the Baltic and Nordic countries.
- 2006 honorary doctor of Vilnius University

Promotion of Gunnar in Vilnius



Features of personality

- Young in his soul and spirit
- Very social
- Wonderful memory
- Interested in people
- Follows scientific advances
- Is aware in new subject matter books
- Supporter of young statisticians
- Perfect organizer, administrator
- Accurate documentation keeper, application writer
- Great photographer
- Interested in art, theather, music
- Admirable tamada'
- Gentleman



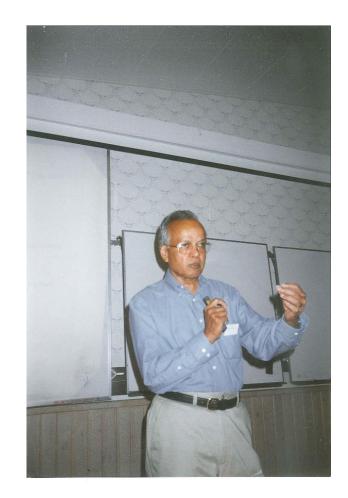
- Gunnar has been the main soul of the Network events
 - In organization, in formation and fine tuning the programme
- He has introduced
 - the format presentation+discussion
 - the format of farewell parties with entertainments
 - Tomada'
 - Steering Committee meeting with summaries and proposals
- He has been interested in every participant, talking to anyone
- He has made photos and created well-documented albums of workshop events
- He took care of the survival of the Network when he became ill. In the Steering Committee meeting in Minsk he stepped back and Risto became a lieder of the Network

Examples of Gunnar's photograpy

Carl-Erik



J.N.K. Rao



More examples

Monica Pratesi



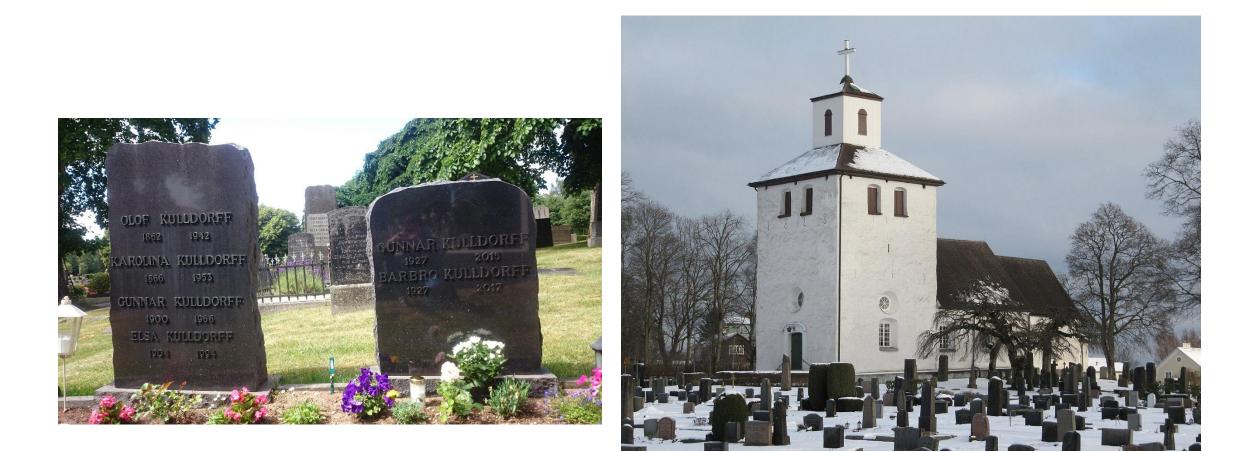
Danny Pfeffermann



Gunnar's family



Gunnar is buried in Vittsjö



Final words

- Everyone remembers Gunnar who has met him at least once
- Baltic-Nordic-Ukrainian network is a result of his visionary thinking and activities
- Address to the younger generation: Please continue the activities of BNU. Search for the new forms of the cooperation and new financing sources.
- Continue the existing cooperation, and Gunnar will be happy observing us from high.