

## CURRICULUM VITAE

### Personal

Name: Gyula O.H. Katona

Born: March 16, 1941, Budapest, Hungary

Civil status: Married, two sons (43 and 29).

Address: Alfréd Rényi Institute of Mathematics, Budapest, Reáltanoda u.13-15 PF 127, 1364, Hungary, Phone: (36-1)-483-8318

Citizen and resident of Hungary.

### Education, degrees

Several prizes in highschool mathematical contests, including the first Mathematical Olympiade (Romania, 1959).

Several prizes during university studies.

Diploma in Mathematics at the Eötvös Loránd University, Budapest, Hungary, (it corresponds to the MA degree), 1964.

Ph.D. in Mathematics at the Eötvös Loránd University, 1968, advisor: Alfréd Rényi "Candidate" of the Mathematical Sciences, Hungarian Academy of Sciences, 1972.

Doctor of the Mathematical Sciences, Hungarian Academy of Sciences, 1981.

Corresponding member of the Hungarian Academy of Sciences, 1995.

Ordinary member: 2001.

### Positions

Research Associate, Research Institute for Telecommunication, Budapest, 1964-66.

Mathematical Institute of the Hungarian Academy of Sciences, later: Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, different positions, 1966–, director in the period 1996-2006.

Part time teaching at the Eötvös L. University, Budapest, 1964-

Visiting positions:

University of North Carolina, Chapel Hill, NC, USA one semester, 1969.

University of Göttingen, Germany, one semester, 1974.

Colorado State University, Fort Collins, CO, USA, one semester, 1978-79.

Mathematical Institute of the Soviet Academy of Sciences, Moscow, 6 months, 1979

Ohio State University, Columbus, OH, 2 quarters, 1985.

University of California, San Diego, La Jolla, CA, USA 2 quarters, 1985-86.

Case Western Reserve University. Cleveland, OH, 2 semesters, 1988-89.

University of Illinois, Urbana-Champaign, Ill, USA, 1 semester, 1993.

University of South Carolina, Columbia, SC, 1-1 semester, 1998, 2004 and 2007, resp.

University of Memphis, TN, 1 semester, 2001

## **Memberships in Academies**

Member of the European Academy of Sciences

Ordinary member of the Hungarian Academy of Sciences

Foreign member of the Bulgarian Academy of Sciences

## **Professional Activities**

Member of the Editorial Boards of the following Journals:

Journal of Statistical Planning and Inference (USA),

Discrete Mathematics (USA),

European Journal of Combinatorics (France), till 1996 and from 2010,

Combinatorica (Hungary),

Random Structures and Algorithms (Poland-USA), till 2009

Studia Sci. Math. Hungar. (Editor-in-Chief between 1996-2006, Hungary)

Acta Mathematica Hungarica (Hungary),

Serdica Journal of Computing (Bulgaria),

Central European Journal of Mathematics (Poland),

Journal of Statistical Theory and Practice (USA),

AKCE International Journal of Graphs and Combinatorics (India),

Matematikai Lapok (Mathematical Pages, Editor-in-Chief, in Hungarian, the “official” journal of the Bolyai János Mathematical Society)

Alkalmazott Matematikai Lapok (Applied Mathematical Pages, in Hungarian), (Hungary),

Discussiones Mathematicae (Graph Theory) (Poland).

Opuscula Mathematica (Poland)

Asian-European Journal of Mathematics (Hong Kong)

Advances in Natural Sciences (Vietnam)

Moscow Journal of Combinatorics and Number Theory

Electronic Journal of Graph Theory and Applications (Indonesia - Australia)

Secretary-General of the Bolyai János Mathematical Society, Hungary from 1990 to 1996, its President since 2006.

Chairman of the Organizing Committee of the Second European Congress of Mathematics, Budapest, 1996.

Organizer of about 15 conferences, in half of them as the chairman of the organizing committee.

Member of the Scientific Advisory Committee of the Banach Institute, Warsaw 1996-2001.

Member of the Scientific Advisory Committee of the Mathematical Institute of the Academia Sinica, Taipei, Taiwan, 2005-2007.

Member of the Academic Committee of the Center for Discrete Mathematics, Zhejiang Normal University, Jinhua, Zhejiang Province, China, 2010- .

Member of the following Consultative Council of the Bulgarian Academy of Sciences: Science and Technology of Information and Communication, 2011-.

## **Awards**

Grünwald Prize (1966 and 1968), awarded by the Bolyai Math. Society to young mathematicians for outstanding achievements in theoretical mathematics,

Rényi Prize, awarded by the Mathematical Institute of the Hungarian Academy of Sciences, 1975,

Szele Tibor medal, awarded by the Bolyai Math. Society for educating the new generation of scientists.

Prize of the Academy, awarded by the Hungarian Academy of Sciences, 1989.

Prize of METESZ (Federation of Technical and Scientific Societies), 1997

Ernst Moritz Arndt Medal of the Rostock University,

Order of Merit of the Hungarian Republic (civilian), Officer Cross Awarded by the President of Hungary, 2004

Széchenyi Prize, awarded by the President of Hungary, 2005

### **Research Interest**

Combinatorics. Mainly extremal problems for graphs and hypergraphs, connections to probability theory and measure theory,

Theory of databases,

Search theory.

Cryptography

### **Languages**

Fluent in English, Russian, Polish, and Hungarian, weak in German.

### **Publications**

See the attached list. It is worth mentioning that publication [7] is reprinted in the volume *Classic Papers in Combinatorics* edited by I. Gessel and G.-C. Rota (Birkhauser, Boston, 1987). More than 900 papers of other authors quote these papers.

### **Students**

The best known students from the past are Zsolt Baranyai, Péter L. Erdős, Péter Frankl, Zoltán Füredi, László Győrfi, Ervin Győri, Dezső Miklós, László Pyber, Miklós Ruszinkó, Attila Sali and Zsolt Tuza. Some newer doctoral students: Dániel Gerbner, Ákos Kisvölcssey, Gábor Wiener, Krisztián Tichler, Balázs Patkós, Péter Gergely. Present doctoral students: Vajk Szécsi, Attila Balaton, Casey Tompkins.

August 25, 2011

Gyula O.H. Katona