

PERSONAL INFORMATION



György Darvas, PhD

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Sex Male | Date of birth 01/04/1948 | Nationality Hungarian

WORK EXPERIENCE

21/09/1991–Present

Director and chief executive

Symmetrion

29, Eötvös St., Budapest, H-1067 Budapest (Hungary)

- Scientific director; Chief Executive;

- Research in the fields of:

conservation laws, with special attention to the *isotopic field-charge spin conservation*, *hypersymmetry*, extension of the SM in fields at high energies;

also: physics in interaction with other disciplines, interdisciplinary symmetry studies, art-science interrelations, philosophy of science with special regard to physics, symmetry in science, art and technology;

physics-philosophy interrelationships, *laws of nature*, *principles governing the laws of nature*, with special regard to *symmetry* principles.

Research projects:

- Isotopic Field-Charge Spin Conservation

- Hypersymmetry

Editor in chief - journal "*Symmetry: Culture and Science*" (1990-ongoing);

Event organisation (conferences, exhibitions, science-art festivals);

Publication management;

Managing website <http://symmetry.hu>

01/02/1998–31/12/2015

Lecturer

Eötvös Loránd University, Faculty of Sciences, Budapest (Hungary)

- Courses on:

[Symmetry](#),

[Isotopic Field-Charge Spin conservation](#),

[Hypersymmetry](#)

[Physical Symmetries and Conservation Laws](#)

[Interactions in Kinetic Fields and the Conservation of IFCS](#)

15/09/1971–31/12/2012

Senior research fellow

Hungarian Academy of Sciences, IRO

18, Nádor St., H-1051 Budapest (Hungary)

Research studies in the fields of theoretical physics, theory and philosophy of science, symmetries in the sciences and arts,

also: history of science and technology, problems of interdisciplinary researches, management of research and development, national and international scientific cooperation, science and technology policy at nation-wide and international levels, cross-national comparative studies.

- Founder and Secretary General of the International Symmetry Society (1989-2001, in 3 election terms), and then

- also founder and CEO of the *International Symmetry Association (ISA)*, (2003-2013 in 3 election terms); currently: Honorary CEO (2013-);

- editor of several periodical publications;
- organisation of events (scientific conferences, exhibitions).

Beside these main activities:

- national and international comparative - medium and macro - level S&T management projects (e.g., national S&T policies, organisational structures and legislative measures, priority setting, human resource management, financing R&D, co-operation),

in most periods directly under the guidance of the that time Secretary Generals or Presidents of the HAS (depending on the then actual statutes), their deputies responsible for the international affairs, sometimes in co-operation with the S&T policy secretariat of the national Government, sometimes with the National Office for Technological Development;

- elaboration of background materials for national organs in S&T policy decision making, legislation for S&T policy, management of science;

- empirical surveys (e.g., on the legal environment of the innovation and application of modern technologies, organisation and management of interdisciplinary research groups);

at IGO level:

- national liaison person as well as national project leader in many IGO projects, incl. UNESCO (e.g., MINESPOL), CMEA (Eastern European R&D co-operation), UN ECE,

- represented Hungary at UNESCO General Session in S&T section;

at NGO level:

- represented the HAS at a Max Planck Institute led comparative project analysing changes in the S&T establishment of the countries in the East European region after 1989;

- edited the manual for the Longman Publ. series on S&T Policy in the Eastern European countries (publ. 1987) where he wrote about half of the volume - on the advise by the Science Policy Studies Dept. of the AAAS of the US;

- one of the founders of the US based International Society for the Investigation of Interdisciplinary Studies (INTERSTUDY) since 1979.

31/03/1996–01/08/1996

Invited professor

Tsukuba University, Faculty of Physics, Tsukuba (Japan) Research professor

09/2006–06/2008

Invited visiting professor

Lomonosov Moscow State University, Moscow (Russia)

Reading courses, lectures, seminars, research

EDUCATION AND TRAINING

01/09/1966–31/07/1971

MS physicist

Eötvös Loránd University, Faculty of Sciences, Budapest (Hungary)

01/09/1971–31/07/1974

MS philosopher

Eötvös Loránd University, Faculty of Humanities, Budapest (Hungary)

1984–1985

dr. univ.

Eötvös Loránd University, Budapest (Hungary)

1994–1996

Ph.D.

Eötvös Loránd University, Budapest (Hungary)

PERSONAL SKILLS

Mother tongue(s) Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C2	C1	C1	C1
Medium level state exam (1974)					
Russian	C1	C2	C1	C2	C1
High level state exam (1972)					
German	B1	B2	B1	A2	B1
Medium level state exam (1978)					
Polish	A2	B1	A1	A2	

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained through personal professional contacts, conferencing, correspondence, event organisation and friendship;
- decades long experience in lecturing, editing and publication.

Organisational / managerial skills

- Leadership practice gained through *heading international science-art organisations* for over 28 years, and through making responsible decisions;
- management practice in *coordinating work* of research teams, of an institution, of governing boards, as well as members of an international association, of a board of editors, of decision makers, of event organising teams, of participants in research projects.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Independent user	Independent user	Independent user

Digital competences - Self-assessment grid

- Good command of several word processing and office programs,
- publication, reviewing and editing practices,
- handling tables,
- preparing and shaping presentations,
- use of communication programs, browsers,
- image processing programs.
- editing webpages

Visiting professor:

- Lomonosov Moscow State University, 2006-2008

Visiting research professor:

- University of Tsukuba, March-July 1996

Invited lecturer (among others):

- Bauman State University of Technology, Moscow, 2019
- University of Technology, Tehran, 2017
- Wrocław University, 2014
- Moscow State Chaikovsky Conservatory, 2013, 2014
- Universität Tübingen, 2011
- University of Pécs, 2011, 2012
- University of Cluj, 2011
- Lomonosov Moscow State University, Department of Theoretical Physics, 2003, 2008, 2011, 2013
- Zentrum für Kunst und Medientechnologie, Karlsruhe, 2010
- Mathematical Institute of the Romanian Academy, Bucharest, 2009
- Biomedical Engineering Center, University Polytechnica of Bucharest, 2009
- Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, 2008
- Moscow Institute of Architecture, 2008
- Moscow State University of Typography, 2006, 2007
- Russian Academy of Sciences, IMASh, Symmetry Circle, 2003, 2009
- RIKEN, The Institute of Physical and Chemical Research, Tokyo, 1996
- Tel-Aviv University, 1996
- Technion, Haifa, 1995
- University of Tsukuba, 1994
- Institut für Gesellschaft und Wissenschaft, Universität Erlangen-Nürnberg, 1990
- Advisory Council for Science and Technology Policy of The Netherlands, The Hague, 1987
- American Association for the Advancement of Science (AAAS), Washington D.C., 1984

Elected functions:

CEO, - [International Symmetry Association \(ISA\)](#) (2003-2013); Honorary CEO (2013-)
Secretary General, - International Society for the Interdisciplinary Study of Symmetry, (1989-2001)

Editor (among others):

[Symmetry: Culture and Science](#) - journal (1990 - ongoing)

Chairmanship and organisation of events (among others)

- Symmetry of Structure, Budapest, 1989
- Symmetry of Patterns, Hiroshima, 1992
- Symmetry: Natural and Artificial, Washington D.C., 1995
- Order/Disorder, Haifa, 1998
- Symmetry Festivals: Budapest, [2003](#), [2006](#), [2009](#), Delft [2013](#), Vienna [2016](#)

ADDITIONAL INFORMATION

Publications [Publications_Darvas](#)

Courses [Physical Symmetries and Conservation Laws](#)
[Interactions in Kinetic Fields and the Conservation of IFCS](#)
[Symmetry](#)
Isotopic Field-Charge Spin Conservation
[Lectures on Hypersymmetry.pdf](#)