

	<p>György MIHÁLY professor of physics</p> <p>Department of Physics Budapest University of Technology and Economics 1111 Budapest, Budafoki út 8 Hungary</p> <p>email: mihaly@mail.bme.hu phone.: +36-1-4632313 Year of birth: 1951</p>
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Qualification

2001	Ordinary Member of the Hungarian Academy of Science
1995	Corresponding Member of the Hungarian Academy of Science
1986	Doctor of Sciences, Hungarian Academy of Science
1978	dr. univ, Roland Eötvös University of Science, Budapest (supervisor: G. Grüner)
1975	Diploma of Physics (MSc), Roland Eötvös University of Science, Budapest

Employment

1993 -	Budapest University of Technology and Economics, Faculty of Natural Sciences, Institute of Physics, Department of Physics professor of physics head of the Department of Physics (1993-2012) director of the Institute of Physics (2012-2015)
1975 - 1993	Research Institute for Solid State Physics, Budapest postdoctoral fellow/research associate/senior research associate/scientific advisor

Important experiences abroad

1997 - 2003	Ecole Polytechnique Federale de Lausanne, Switzerland – visiting professor 10 x 2 months
1987 - 1989	Department of Physics, University of California at Los Angeles, USA – visiting researcher 2 years
1986 - 1987	Centre National de la Recherche Scientifique, Grenoble, France - visiting researcher 1 year
1979 - 1980	C.E.A., Centre d Etudes Nucleaires des Fontenay aux Roses (Paris), France – postdoc 1 year

Research interest

nanometer-sized memristors
 spin-polarized transport in nanostructures
 metallic multilayers
 spin- and orbital ordering in d-electron systems
 2-dimensional superconductors
 strongly correlated electron systems
 phase diagram of low-dimensional electron systems
 collective excitations of density waves (CDW, SDW)
 transport phenomena of quasi-one-dimensional organic conductors

Grants & projects supervised

http://dept.phy.bme.hu/staff/mihaly/mihaly_grants.pdf

Academic awards

2010	Széchenyi Prize
2008	Simonyi Károly Prize

Memberships and professional service

2007 -	member of the Hungarian Doctoral Council president (2011 – 2013), honorary president (2014 -)
2007 -	chair of the University Habilitation Committee and Doctoral Council (BME)
2005 -	head of the Doctoral School of Physics (BME)
2012 -	head of the HAS-BUTE Condensed Matter Research Group
2007 – 2011	member of the HAS-BUTE Condensed Matter Research Group
2003 - 2006	head of the HAS-BUTE Electron Transport in Solids Research Group
1996 – 2012	member of the HAS-BUTE Condensed Matter Research Group

Teaching experiences

2012 –	Physics-3 (MSc) – for electrical engineering students – BME
2014 –	Physics M1 (MSc) – for mechanical engineering students – BME
1994 – 2015	Introduction to solid state physics (BSc) – BME
1994 – 2013	Condensed matter physics laboratory (MSc) – BME
2009 – 2013	Applied solid state physics (MSc) – BME
2003	Nanophysics – PhD course at Ecole Polytechnique Federale de Lausanne, Switzerland
1993 – 2001	Spin- and charge-density waves (MSc) – BME (every second year)
1991 – 1996	Solid state physics laboratory (MSc) – Roland Eötvös University of Sciences, Budapest
1991 – 1993	Correlated electron systems (MSc) – Roland Eötvös University of Sciences, Budapest
1989	Spin and charge density waves (MSc) – University of California at Los Angeles, USA
1988 – 1989	Physics 180C (MSc) advanced laboratory course – University of California at Los Angeles, USA
1988	Physics laboratory course (BSc) – University of California at Los Angeles, USA Correlated electron systems (MSc) – University of California at Los Angeles, USA
1987	Physics laboratory course (BSc) – Université Joseph Fourier, Grenoble

Supervision

Gubicza Ágnes (MSc 2013, PhD), Geresdi Attila (MSc 2007, PhD 2011), Demkó László (MSc 2002, PhD 2010), Csontos Miklós (MSc 2002, PhD 2007), Csonka Szabolcs (MSc 2001, PhD 2006), Kézmárki István (MSc 1999, PhD 2003), Halbritter András (MSc 1999, PhD 2003), Zámorszky Ferenc (MSc 1998, PhD 2000), Szeghy Géza (PhD 2000), Giamal Abdussalam (PhD 1999), Soczó Csaba (MSc 1998), Pethes Ildikó (MSc 1995), Fülöp Gábor (MSc 1995), Czigány Zsolt (MSc 1992), Gaál Richárd (MSc 1992, PhD 1997), Beleznyai Ákos (PhD 1994).

for details see: http://dept.phy.bme.hu/staff/mihaly/mihaly_supervise.html

Publication list <https://vm.mtmt.hu//search/slist.php?lang=0&AuthorID=10000944>

Number of publications (peer reviewed journal papers): 137
Total number of independent citations: 2136
Cumulated impact factor: 387,15
Hirsch-index: 30

Five selected publications

- A. Gubicza, M. Csontos, A. Halbritter, G. Mihály
Non-exponential resistive switching in Ag_2S memristors: a key to nanometer-scale non-volatile memory devices
Nanoscale **7**, 4394 (2015)
- A Geresdi, M Csontos, Á Gubicza, A Halbritter, G Mihály
Fast operation of nanometer-scale metallic memristors: highly transparent conductance channels in Ag_2S devices
Nanoscale **6**, 2613 (2014)
- Csontos M, Mihaly G, Janko B, Wojtowicz T, Liu X, Furdyna JK
Pressure-induced ferromagnetism in $(In,Mn)Sb$ dilute magnetic semiconductor
Nature Materials **4**, 447 (2005)
- Kriza G, Mihaly G
Stretched-exponential dielectric-relaxation in a charge-density-wave system
Physical Review Letters **56**, 2529 (1986)
- Mihaly G, Mihaly L
Spontaneous decay of metastable states in orthorhombic TaS_3
Physical Review Letters **52**, 149 (1984)