

Curriculum vitae

Personal data

Full Name: György Czél

Date of birth: 08.03.1962

Place of birth: Miskolc, Hungary

Office: University of Miskolc Building B/1. room: 202.

H-3515 Miskolc, Egyetemvaros, Hungary

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Employments

1985 - 1987 Designer, KOSZGÜ Industrial Centre, Kazincbarcika Hungary

1987 - 1989 Research Fellow Department of Physical Metallurgy, Technical University for Heavy Industry

1989 - 1992 Research Engineer for Mining Machinery, leader of the Mining Machinery Research Laboratory

1992 - 1998 Research Fellow Dept. of Non-metallic Materials, Institute of Material Science, University of Miskolc

1998 - 2002 Associate professor of Dep. of Non-metallic Materials Technology, Institute of Materials Technology, University of Miskolc

2002 - 1996 Associate professor of Dep. of Polymer Engineering, Faculty of Material Science and Engineering, University of Miskolc

2017-to date Full time professor of Dep. of Polymer Engineering, Faculty of Material Science and Engineering, University of Miskolc

Scientific degree

1985 M.Eng. Mining Machinery and Electricity,

1996 Univ. tech. doctor degree, Material Science,

1998 PhD on Material Science and Technology,

2016 Dr. Habil. of Material Science and Technology,

2017 Prof. Dr. of Materials Science and Technology.

Scientific activities

Polymer rheology, Shape forming of polymers, biopolymers and biopolymer based composites, injection molding technology, recycling of thermoplastics.

Registered expert in the field of:

*vacuumtechnology

* furnace technology

* plastic and rubber forming technology

Professional experiences abroad

Training in foreign institutes as a guest-teacher

1. University of Basilicata, Potenza, Italy, 2002.08.29-2002.09.05. Title: Bioglass deposition by PLAD technology

2. Loughborough University, 2004.05.22-05.30. England Title: Recycling of PET
3. University Linköping Sweden, 2005.08.27-2005.09.10. Lecture serial: Deformation caused brakedown of acetabular cups made of UHMWPE
4. Katholieke University Leuven 2006.06.20.-2006.06.27. Title:Education of polymer processing at MU
5. Universitat Duisburg-Essen , 2008.05.20-27.Title: Optimization of set up strategies fir injection molding processes
6. Kungliga Techniska Högskolan (KTH) Stockholm Sweden, 2008.06.20-07.04.Chemical Science and Engineering,Title: New Technology for PET recycling
7. Kungliga Techniska Högskolan (KTH) Stockholm Sweden, 2010.06.20-07.04.Chemical Science and Engineering,Title: Fundamentals of injection moulding technology
8. Kungliga Techniska Högskolan (KTH)Stockholm Sweden, 2011.04.09-04.16. Title: Biomaterials and its Application fields

Membership

- Member, Hungarian Engineering Chamber (1996 to date)
- Member, Scientific Association of Hungarian Silicate Industry (2001 to date)
- Member, Hungarian Astronautical Society (1987- 1992)
- Member, AMFK Postdoc. Association named Zoltán Magyary (2000 to date)
- Member, Scientific Association of Engineering (1987 to date)

Languages: English, Russian

Published reports

Total number of publications: 105 pieces, references: 160 pieces, Hirsch index: 4

Papers:

- In international scientific journals in English language: 14 pieces
- In a Hungarian scientific journal in English language: 1 piece
- In a Hungarian scientific journal in Hungarian language: 6 pieces

Editor of 1 book in Hungarian language

A part of a book in Hungarian language: 1 piece

Conference proceedings in scientific journals or in conference publications:

- in Hungarian language: 16 pieces
- in English language: 13 pieces

University handbooks and lecture notes in Hungarian language: 3 pieces

Further university notes in Hungarian language: 1 piece

Hungarian Patents: 6 pieces

International Patents: 4 pieces

Marketed patents: 3 pieces

Other scientific publications, abstracts: 7 pieces

Citations:

- in international scientific journals, independent: 55
- in a Hungarian scientific journal published in English language, independent: 24
- conference proceedings in a scientific journal or in a conference publication, independent: 1
- Independent references concerning the forms of protection: 7
- independent in dissertations or in other types: 32
- Total number of independent ones: 119

Awards, recognitions: 7 pieces

- 21 October 1994 – „*Creativity Award*” given by the General Meeting of Borsod-Abaúj-Zemplén county for the activity made in the Creative Group of University of Miskolc (Planning of the parts of UMC space furnace)

- 29 November 1994 – „*Innovation Award*”; Exhibition entitled „From the idea to the product '94” in Debrecen (for the planning work carried out in the framework of the Creative Group of UNIVERSITY OF MISKOLC)
- 5 December 1996 – „*Engineers for the Peace Award*”; This award was given in 1996 by the „Engineers for the Peace and Universal Culture Foundation” by co-operating the specialists of NASA for the results achieved in the microgravity material science that promoted the international cooperation and idea of friendship.
- 1998. – Inventors’ Olympiad „*Genius 98 Award*” bronze medal for the development of „Universal apparatus for advanced crystallisation” (co-inventor).
- 8 April 2004: „*Miskolc Space Furnace Niveau Award*” given by the General Meeting of Miskolc City with county rights to the Creative Group of University of Miskolc
- 21 April 2012 - „*Technical Literature Award*” given by the Scientific Society of Mechanical Engineering Budapest (The relationship between the quality characteristics and operational parameters during the injection moulding of precision parts)
- 10 February 2016 „*Excellent TDK Consultant*” awarded by the Council of Student Research Societies of University of Miskolc

The most relevant publications

- J1. Gy. Czél, R. Teghil and D. Janovszky: Pulsed Laser Deposition of Bioglass coatings on Dental Implants
Materials Science Forum Volumes 414-415 (2003), ISSN 0255-5476 pp. 9-14, 2003 Trans Tech Publications, Switzerland
- J2. György Czél, Gabriella Zsoldos: Acetabular Cup Deformation and Strength Improvement by Physical Crosslinking, Materials Science Forum Vols.473-474 (2005) pp.441-446 Trans Tech Publications,
- J3. S. Bohátka, Gy.Szőör, Gy. Czél, É.Balázs: High temperature direct probe for MS and its use for thermal decomposition monitoring Vacuum 80 (2005) pp.247-252 Elsevier Impakt faktor: 0.902
- J4. Gy. Czél, Z. Kanyok: MAgPP an Effective Coupling Agent in Rice Husk Flour Filled Polypropylene
Materials Science Forum Volumes 537-538 (2007) p.p. 137-144, Trans Tech Publications,
- J5. Peter Kaali, Dane Momcilovic, Agneta Margström, Ragnhild Aune, Gyorgy Czel, Sigbritt Karlsson: Degradation of Biomedical Polydimethylsiloxanes During Exposure to in vivo Biofilm Environment Monitored by FE-SEM, ATR-Ftir, and MALDI-TOF MS, Journal of Applied Polymer Science, Vol. 115,802-810 2009 Wiley Periodicals, Inc.
- J6. Peter Kaali, Emma Strömberg, Ragnhild Aune, György Czél, Dane Momcilovic, Sigbritt Karlsson: Antimicrobial properties of Ag⁺ loaded zeolite polyester polyurethane and silicone rubber and long-term properties after exposure to in-vivo ageing Polymer Degradation and Stability, Vol. 95 (2010) 1456-1465 Elsevier
- J7. Gy. Czel, A. Kelemen, D. Solyom: Flame Retardant Polyethylene Terephthalate Fibers Added with Melamine Based FR Additive, Materials Science Forum Vol 659(2010) pp.135-140 Trans Tech Publications, Switzerland doi 10.4028.
- J8. P-Kaali, M.M. Pérez-Madrigal, E. Strömberg, R.E. Aune, Gy. Czél, S. Karlsson:
The influence of Ag, Zn and Cu exchanged zeolite on antimicrobial and long term in vitro stability of medical grade polyether polyurethane, eXPRESS Polymer Letters Vol.5. No.12 (2011) 1028-1040. DOI: 10,3144/expresspolymlett.
- J9. Péter Kaali, György Czél: Single, binary and ternary ion exchanged zeolite as an effective bioactive filler for biomedical polymer composites, Materials Science Forum Vol.729 (2013) pp 234-239 Trans Tech Publications, Switzerland doi: 10.4028/www.scientific.net/MSF.729.234