

Curriculum vitae, G. Julius Vancso

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Personal: Date of birth: June 9, 1954
Citizenship: Hungarian and Canadian dual citizen
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Employment History: (beginning from most recent)

University of Twente:

- Full Professor and Chair, Department of Polymer Materials Science and Technology, Faculty of Science and Technology (TNW) and MESA+ Institute for Nanotechnology, since November, 1994.
- Division Head, Chemical Engineering 2009-2015.
- Scientific Director A.I., MESA+ Research Institute for Nanotechnology September 2002 – January 2003.
- Associate Dean, Faculty of Chemical Technology, University of Twente, 2001- 2002.

Nanyang Technological University, School of Materials Science and Engineering, Singapore, Visiting Professor 2011-12; and since July 2014.

Donghua University, Department of Chemistry, Shanghai, PRC, Consulting Professor, since May, 2017; China 1000 Talents Distinguished Professor since January 1, 2018.

University of Toronto: Associate Professor with tenure, Department of Chemistry, July 1, 1993 - April 30, 1995;

Adjunct Professor, Department of Metallurgy and Materials Science, 1990 – 1998;

Associate Professor, tenure track, Department of Chemistry, 1990-1993;

OCMR* Visiting Assistant Professor, Department of Chemistry, 1988-1990. (* OCMR: Ontario Centre for Materials Research)

Swiss Federal Institute of Technology (ETH-Zürich): Department of Materials Science, Institute for Polymers:

Lecturer and Research Associate, 1986-88 (teaching contract from Professor P. Pino);

Research Associate, 1984-1986; Postdoctoral Fellow and Postgraduate Student 1983-1984.

Central Research Institute for Chemistry, Hungarian Academy of Sciences: Research Associate 1982-83. Graduate (Ph.D.) Student 1979-1982.

Other professional appointments:

- Donghua University, Department of Chemistry, Shanghai, PRC: Visiting Consulting Professor, 2017.
- Agency for Science, Technology and Research (A*STAR Singapore) IMRE and SERC: Visiting Principal Investigator, 2006-2014.
- Swiss Federal Institute of Technology (ETH-Zürich), Department of Materials Science: Visiting Professor (sabbatical leave), March-September 2012.
- Technical University of Catalonia, Barcelona, Spain: Visiting Professor, 2010.
- University of Technology and Economics, Budapest: Visiting Professor "Pro Renovanda Cultura Hungariae", 2002.
- University of California at Santa Barbara, Materials Research Laboratory, USA: Visiting Professor (sabbatical leave), January-May, 2001.

Current major committee appointments:

- Scientific Advisory Board, German Cluster of Excellence, Living Adaptive and Energy-Autonomous Materials Systems, University of Freiburg.
- Member, Academic Committee, Int. Joint laboratory for Low-Dimensional Materials & Member: International Advisory Committee of State Key Laboratory FPM, Donghua University, Shanghai.
- University of Twente, Prices and Awards Committee, Chair, since 2014.
- Chair, International Advisory Board, Natural Sciences Research Centre, Hungarian Academy of Science, since 2016.
- ISPAC International Symposia on Polymer Analysis and Characterization (Chair of the Governing Board).

Major editorship appointments:

- Elsevier Publishing House: Editor-in-Chief, European Polymer Journal & Founding Editor of the Macromolecular Nanotechnology section, since 2002.
- Royal Society of Chemistry: Editor, Nanoscale; 2009-2015.

Education:

Postgraduate studies (ETH-Zürich): Polymer Materials Science, Polymer Physics, 1983-84.

Ph. D. in Solid State Physics and Statistical Physics ("summa cum laude"), 1982. University of Sciences "Eötvös Lorand", Budapest; and Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest. " *Physical Properties of Polyenes and Polyenyl Radicals as Model Systems for Conducting Polymers*".

M. Sc. in Physics ("summa cum laude"), 1979. University of Sciences "Eötvös Lorand", Budapest; and Central Research Institute for Physics, Hungarian Academy of Sciences, Budapest. Thesis: "*Dielectric Properties of Quasi-One-Dimensional Synthetic Metals and Semiconductors*".

Publishing activity, journal articles:

In journals: ca. 550 (co)authored papers printed +/-, ca. 5 in press.

Total number of citations since 1988 (WOS; 09-26-2018) 15,000 ++; h-factor: 61.

Patents: seven granted/under consideration.

Books:

- Holger Schönherr, G. Julius Vancso;

Scanning Force Microscopy of Polymers, Springer Laboratory Series, Springer, Heidelberg (2010)

- G. Julius Vancso, Günter Reiter;

Ordered Polymeric Nanostructures at Surfaces, Advances in Polymer Science, Springer (2010)

Approximately 300 (+) invited/keynote/plenary lectures delivered.

Current Research Activities:

Size of research group: +/- 25 students & co-workers in the Netherlands, 3 +/- in Singapore, 3 in Shanghai.

Research group structured in three major clusters including: Materials Chemistry, Macromolecular Nanotechnology and Polymer Materials Technology & Technology Transformations. Current activities include the following project areas: (a) Nanotechnology of soft condensed matter; (b) Single molecules and nanoparticles; (c) Materials chemistry of stimulus responsive ("smart") and organometallic polymers. (d) Nanoporous & cellular polymers. (f) Biomimetic surface engineering for adhesion control (adhesion promotion, antifouling). (Applications: thermal insulation, biomedical, surface technology, molecular delivery, sensors, actuators, microfluidics, catalysis in microreactors)

Granted Ph.D. Theses Supervised:

University of Toronto, Department of Chemistry, & Department of Metallurgy and Materials Science: 3 Theses

University of Twente: 42 Theses

Co-Supervised Ph.D. Thesis: 3 (Tsinghua University/Jilin University, PR China; Mahidol University, Bangkok, Thailand; Catania University, Italy)

Conference chair and (co)organizer (selected examples):

- International Conference on Biomimetic and Zwitterionic Materials; 2019 (Rolduc, the Netherlands).
- Frontiers in Polymer Science; 2019 (Budapest, Hungary).
- Advanced Macromolecular Systems Across the Length Scales (AMSALS):
AMSALS I Enschede (2006); AMSALS II Enschede (2007); AMSALS III Enschede (2008); AMSALS IV Siofok; Hungary (2012), AMSALS V Darmstadt, Germany (2013).
- ISPAC 15 Enschede (2002); ISPAC 25 Rolduc (2012); ISPAC 29 Singapore (2016).
- International Symposia on Scanning Probe Microscopy of Polymers (SPMP):
SPMP Rolduc (2003); SPMP Rolduc (2012); SPMP Toronto (2014); SPMP Changchun (2016).
- EuCHEMS, Seville, 2016.

Memberships in professional societies:

- Fellow, Royal Society of Chemistry. • Member, Royal Netherlands Chemical Society. • Member, European Physical Society (Past Member, Macromolecular Physics Executive Board). • Member, American Chemical Society, Polymer Chemistry and Polymer Materials Science and Engineering. • Member, Canadian Institute of Chemistry. • Member, American Association for the Advancement of Science.

Professional activities (selected examples):

- Dutch Program on High Tech Materials and Systems; Program Management Committee, Member, 2014-2019.
- Leibniz Institute for Natural Product Research, Jena; International Advisory Board, Member; since 2016.
- University of Twente: Department Head, Department of Chemical Technology and Member of the Faculty Management Team (Faculty of Science and Technology) (2010-2014).
- Hungarian National Foundation for Research, Development and Innovation, Office of the Prime Minister, Member of the International Advisory Board (2015-2018).
- Hungarian Academy of Science, Chemical Research Centre; Member, Advisory Board (2009-2012); Advisor to the president (2012-2013).
- University of Twente: Associate Dean, Faculty of Chemical Technology, University of Twente, May 2001-September 2002.
- NWO-Netherlands Scientific Organization VICI Beta Committee, Jury Member 2013; TOP/VIDI and ECHO Program Committees, NWO Instrument Infrastructure Program ("Middelgroot"): jury member/chairman; several committees.
- ACS Presidential Panel for internationalization, invited member.
- Research Assessment Committee Chairman, Materials Science, Hungarian Academy of Sciences, 2013.
- Advisory Board member, Technical University of Darmstadt, Responsive Polymers program.
- Foundation PTN ("Polymer Technology Netherlands"), Board Member, 2000-2012.
- Hungarian Strategic (Large) Research Program OTKA, Large National Programs, Jury Member, 2006-2014.
- Science Foundation Ireland, Research Frontiers Program, Jury Member, 2008, 2012.
- Hungarian Academy of Science, Chemical Research Centre; Member, Advisory Board (2009-2012).
- Academy of Finland, Review panel member for polymer chemistry and biomaterials, 2011.
- Max Planck Society, Germany, various advisory and director selection committees (MPI Mainz).
- FWO Belgian Scientific Organization, Organic and Supramolecular Chemistry Program, Jury Member (2003-2009).
- Scientific Advisory Board Member, A*STAR (a government statutory board), Singapore, (2002-2005).
- University of Twente, Rector's Advisory Committee, Extraordinary Professorial Appointments.
- University of Twente, Tenure Track Advisory Committee, various professorial appointment committees.
- Science Advisory Board, Nanotechnology program, University of Leeds and Sheffield, 2012.
- Research Assessment Committee, University of Padua, 2007.
- European Physical Society, Division for Macromolecular Physics, Board Member (retired).
- Program Steering Executive Committee, Dutch Priority Program of Materials (retired).
- Working Party for Macromolecules, Dutch Science Organization (NWO-CW), Member (2000), Secretary (2001), Chairman (2002), Executive Board.
- Program Manager, Dutch Coatings Forum for Waterborne Coatings Systems (retired).

- Committee chairman and organizer, International Curriculum for M.Sc. in Nanotechnology, University of Twente (retired).

Major Awards and Honours:

- China National 1000 Talents Senior Scholar Award 2018.
- Shanghai Province International Talent Award 2018.
- Elected External Member of the Hungarian Academy of Science, May 2010.
- Elected Fellow of the Royal Society of Chemistry, UK, 2010.
- NWO-TOP Award (Netherlands Foundation for Scientific Research), “Nanotechnology of Stimulus Responsive Polymers”, 2007.
- Dean's Performance Excellence Award, University of Toronto, 1994.
- Tenure, Faculty of Arts and Science, Department of Chemistry, University of Toronto, 1993.
- Center of Excellence Award by the Prime Minister of Ontario in Materials Science, 1989. (For nanoscale surface studies of polymers; the first Atomic Force Microscope laboratory in Canada in soft matter science.)
- Young Investigator Award of the Hungarian Academy of Science for the Ph. D. Thesis in 1983

Knowledge valorisation:

Chief Executive Officer and Co-Founder, SULIS Polymers Ltd. (Performance polymers for quality life); Co-founder and co-owner of Aerotech Ltd. (development of nanostructured polymeric materials for thermal insulation); Co-founder Advanced Scanning Probe Solutions (nanotechnology and microscopy in materials science). Author of 7 patents in various areas of polymer technology, nanotechnology and materials science. Regular consultant of major international polymer producers. Legal Advisor: Patent attorney office “Hoyng, Rokh and Monegier”.