

Curriculum Vitae



Professor em Jan-Gunnar A. Persson Email: jgp@kth.se cell: +46 706 74 41 26
 born on April 12, 1942 in Västerås, Sweden
 Malmstigen 11
 SE-184 64 Åkersberga
 Sweden

Family

Married 1966 to Anna-Karin Aminoff, chief physician, psychiatry, † 2022
 Children: Johan, born 1971 (teacher, and silversmith), Anna, born 1986 (medical candidate)

Education and Academic positions

MSc Aeronautical Engineering, Royal Institute of Technology – KTH, 1967
 Economy and Business Administration 67 ECTS, Stockholm University, 1970
 Licentiate of Engineering, Fluid Power, Royal Institute of Technology – KTH, 1986
 Thesis: *Heat Exchange in Liquid Injected Compressors*
 Associate professor/Senior Lecturer, Thermal Engineering, KTH, 1987
 Professor, Machine Design, KTH, 1988 – 2009
 Professor em, Machine Design, KTH, 2009 -

20 years industrial experience

SIKOB AB 1967 – 1972 Engineering consultancy: Project manager and specialist, product development/design and production planning, computerized engineering analysis. Mechanical engineering; structural mechanics calculations e.g. for nuclear power plant components; computer simulation; optimization, system for optimized production planning; programming in FORTRAN.

Atlas Copco AB 1972 – 1997

1971 - 1978 Central Laboratory, Department of Machine Design and Fluid mechanics, Project manager and Group manager. Technology and market analysis; prototype development; specialist in thermodynamics and compressor technology; concept design of a new range of turbo compressors; development of a generic method for performance analysis of displacement compressors of arbitrary geometry. Design and test of a 5 000 bar pressure intensifier for water jet cutting.

1979 – 1987 Corporate staff R&D planning. Strategic technology development; product development projects; business development. Development of a new business area: A range of modular/parametric turbo type gas compressors

customized for process industry; new compressor applications for industrial energy recovery: large heat pumps, steam recompression and ORC-Organic Rankine Cycles for electricity generation from low temp heat; auxiliary equipment for off-shore oil and gas; high-speed and variable speed electric motor drives; adsorption and membrane processes for gas separation.

Own consultant company JGP Teknikkonsult, 1994 -

Various assignments for industry and academy.

35 years Academic experience

Royal Institute of Technology – KTH, 1987 – 2008

1987 Department of Thermal Engineering, Associate professor/Senior Lecturer
 1988 – 2008 Department of Machine Design, Professor
 2009 - Professor emeritus

Research and teaching. Industry co-operation. Research topics: Design methodology; modeling, simulation and optimization of mechanical systems; some applications: Industrial robots, energy conversion systems, fuel cells, fluid machinery. EcoDesign and Industrial design.

Supervision of students:

10 PhD (of which three are now professors at KTH)

16 Licentiate of Engineering (“half-way PhD”)

Approximately 150 MSc diploma theses, in cooperation with industry

Approximately 400 student design projects, in cooperation with industry

Joint student groups for product development: KTH Machine Design / Stockholm School of Arts – Industrial Design / Stockholm University - Market Academy

Faculty opponent at 21 PhD defenses and at 5 licentiate seminars, in Sweden and abroad

Member of the grading committee at approximately 50 PhD defenses in Sweden

Expert evaluations for 17 Nordic professorial chairs and for 15 senior lecturer positions and ”docent” degrees at Swedish Universities

1987 – 2008 Various academic appointments at KTH

Invited speaker, scientific committee member, and conference chairman at several international conferences

1992 – 2000 Education for industry, in engineering design

Publications

75 papers, mostly from international conferences.

Co-author of a comprehensive textbook on product development, engineering design and industrial design, in Swedish: H Johannesson, J-G Persson, D Pettersson: *Produktutveckling – effektiva metoder för konstruktion och design*, Liber publishing Co, 2004 and 2nd edition 2013.

Patents

Three patent applications filed by ABB Robotics, within the field of parallel kinematic robots. European patent 1594661 “Industrial Robot” granted 2010-02-17

Visiting Scientist

- 1991 -1992 Invited to give seminars and lectures at University of Liège, on Fluid Machinery
- 1994 Participating in a TEMPUS Phare project with Tallinn Technical University: *Integrated Product Development – a teaching system leading to small business entrepreneurship*, Contract S_JEP-08048-94
- 1997 Invited to give seminars at Otto-von-Guericke Universität Magdeburg, on Product Development and Eco-Design
- 1997 Invited as visiting scientist during six weeks, at the CAD/CAM laboratory at EPFL Lausanne. Research topic: Decision support for designing Eco-effective industrial product systems
- 2006 Invited to give a PhD course seminar at Tallinn TU

Other assignments

- 1989 - Nominated by the Swedish Government as technical expert on patent matters in the Stockholm City Court and Svea Court of Appeal
- 1990 - Commissions as technical expert for project evaluations by NUTEK- the Swedish National Board for Technical and Industrial Development, and by other councils and authorities
- 1991 – 2005 Chairman of the Swedish Society of Mechanical Engineers, Naval Architects and Aeronautical Engineers; and legally responsible editor for the society’s journal *Mekanisten*
- 1996 – 2002 Board member, The Swedish Vehicular Engineering Association – SVEA
- 1999 – 2011 Member of the committee for the Torsten Dahlin grant in Industrial Design
- 1999 – 2019 Member of the price committee for the annual SSAB Swedish Steel Price
- 2000 – 2007 Board member/chairman of SVID - the Swedish Foundation for Industrial Design (deputy chairman 2003 – 2004 and 2006 - 2007, chairman 2005)
- 2001 - 2003 Member of expert panels for evaluation of project proposals for the European Commission LIFE- Environment program
- 2001 – 2009 Participating in expert commissions for accreditation of study programs at Riga Technical University (RTU) and at Latvia University of Agriculture
- 2005 – 2007 Evaluation of project proposals for Estonian Academy of Science
- 2005 – 2012 Finland Academy: Member (2012 chairman) of expert panels for evaluation of research programs and project proposals
- 2007 – 2009 Board member, MISTRA (the Swedish Foundation for Strategic Environmental Research) national research program *Fuel cells in a sustainable society*
- 2012, 2013 Member of the expert panel for evaluation of project proposals for the European Commission LIFE+ program
- 2016 Honorary chair and International scientific committee member, CIRP 26th Design Conference, KTH, June 2016
- 2013 - 2017 Expert, 1-year, 2-year, 3- year and 4th year final evaluation of project Odin for development of a highly integrated and compact electric auto drive-train, within the EC FP7

- 2017 Estonian Research Council: Expert panel member,
International evaluation of Estonian research and development
- 2021 Estonian Research Council and Estonian Quality Agency for Higher
Education and VET: Expert panel member, International evaluation of
research and PhD programmes
- 2022 Estonian Research Council, Department of R&D Analysis: Expert panel
member, International evaluation of research and PhD programmes at
Tallinn University of Technology professorships
- 2022 Honorary delegate ICSM-International Conference on Screw machines,
Dortmund

Memberships

Member ASME – The American Society of Mechanical Engineers
Member (Fellow em) of CIRP - The International Academy for Production
Engineering
Member of IAMOT - the International Association for Management of
Technology

Private memberships, interests and activities

- 1971- Member of the local boat club Trälhavets BåtKlubb – TBK
- 1978 - Member of the Swedish Cruising Association – SXX
- 1986 -2018 Member of the Stockholm Skating Society - SSSK
- 1989 - Member of Österåker Rotary Club, president 2002/2003, treasurer 2020 -
- 1996 - Member of the yachting society Merikarhut–Sjöbjörnarna r.y. in Finland
- 2002- Member of the Royal Swedish Yacht Club - KSSS
- 2010 -2017 Board chairman of the Swedish Section of Finnish Sjöbjörnarna-Merikarhut

Sailing, 29' sailing yacht Hallberg-Rassy 29 (in Sweden, Finland, the Baltic countries, Poland, Russia, Norway/North Cape, Denmark, Scotland, Germany). Transatlantic sailing from the Caribbean to Europe, in my son's 32' sailing yacht (summer 2001). Crew member, sailing on Russian rivers, lakes and canals to the White Sea, Northern Norway and to Svalbard (summer 2015). Sailing in charter yachts in the Mediterranean and in the Caribbean, also as captain (2007 - 2017). Crew member in the full rigged sailing ship Christian Radich across the North Sea (2019) and to the Faroe Islands (2022).

Publication of sailing reports e.g. in SXX, KSSS and Merikarhut annual books.

- 1990 - 1991 Construction of a new house in Western Sweden Archipelago (Bohus-Malmön)

Jazz musician (alto saxophone) and previously tenor singer in quires