Peter Fajfar

1943 rojen v Ljubljani | Born in Ljubljana
1966 diplomira iz gradbeništva | Degree in civil engineering, Univ. of Ljubljana (UL)
1967 zaposlitev v operativi pri SGP Grosuplje | Joins construction firm SGP Grosuplje
1969-2018 zaposlitev na Fakulteti za gradbeništvo in geodezijo Univerze v Ljubljani | Employed at Faculty of civil and geodetic engineering (FGG UL)
1972, 1974 magistrira, doktorira | MSc, PhD (FGG UL)
1985–1987 dekan | Dean (FGG UL)
1994, 1995, 2006, 2009 gostujoči profesor | Visiting professor Mc Master Univ. Hamilton, Stanford Univ., Bristol Univ., Canterbury Univ. Christchurch
2003 urednik | Editor Earthquake Engineering Structural Dynamics (Wiley)

Akademik Fajfar dela na področju potresnega inženirstva, kjer raziskuje vpliv potresov na obnašanje gradbenih konstrukcij. Metode, ki jih je s sodelavci na Inštitutu za konstrukcije, potresno inženirstvo in računalništvo na Fakulteti za gradbeništvo in geodezijo Univerze v Ljubljani razvil za analizo gradbenih konstrukcij, so postale eno temeljnih orodij v raziskavah potresne odpornosti v svetu. Fajfarjevi znanstveni rezultati imajo velik praktični pomen. Njegovo delo je močno vplivalo na razvoj predpisov in standardov v Sloveniji in Evropi. S svojimi raziskovalnimi dosežki, razvojem programske opreme, pedagoškim in strokovnim delom je odločilno prispeval k ekonomični zagotovitvi nadpovprečno visoke stopnje potresne varnosti večine novejših pomembnih objektov v Sloveniji.

Po potresih je treba proučiti njihov vpliv na gradbene konstrukcije in ugotoviti razloge za opaženo obnašanje posameznih objektov. Fajfar je v ta namen obiskal več območij, ki so jih prizadeli močni potresi. Na sliki je zrušena stolpnica po potresu v Čilu leta 2010.

After earthquakes, it is necessary to study their impact on building structures and identify the reasons for the observed behavior of individual buildings. To this end, Fajfar visited several areas affected by strong earthquakes. The photo shows a collapsed high-rise building after the earthquake in Chile in 2010.

Prof. Fajfar works at the University of Ljubljana in the field of earthquake engineering. He focuses his research on the impact of earthquakes on the behaviour of buildings and civil engineering structures. Methods that he developed with his colleagues to analyze building structures have been implemented in the European standard Eurocode 8 and have become one of the essential tools in research and practice of earthquake-resistant design and assessment worldwide. He is one of the most cited researchers in earthquake engineering and a member of two national academies in Slovenia, the European Academy of Sciences (Belgium), and the US National Academy of Engineering. For 13 years, he was one of three editors of Earthquake Engineering and Structural Dynamics, the journal with the highest impact factor in earthquake engineering. Together with Prof. Helmut Krawinkler from Stanford University, he organized three highly successful international workshops in Bled, where the most prominent researchers and practitioners set the directions for improvements in seismic design.

Izbrana dela | Important Works

Fajfar P (1976) EAVEK (program za elastično analizo večetažnih konstrukcij), FAGG, Univerza v Ljubljani.

Fajfar P (1999) Capacity spectrum method based on inelastic demand spectra. Earthquake Engineering & Structural Dynamics 28(9): 979-993.

Fajfar P (2000) A nonlinear analysis method for performance-based seismic design. Earthquake Spectra 16(3): 573-592.

Izbrane nagrade | Selected Awards

1989, 1993 izredni, redni član SAZU | Associate, full member, Slovenian Acad. of Sciences and Arts
1995 nagrada RS za raziskovalno delo | Republic of Slovenia award for academic work
2013 nagrada za življensko delo, IZS | Award for lifetime achievements, Chamber of engineers of Slovenia
2015 Zoisova nagrada za življensko delo | Zois Award for lifetime achievements
2018 Ambraseys lecture
2018 zunanji član | Foreign member, US National Academy. of Engineering

Japec Jakopin

1951 rojen v Brežicah | born in Brezice, Slovenia
1974 konča študij medicine na Medicinski Fakulteti Univerze v Ljubljani (dr. med.) | Degree in medicine, University of Ljubljana
1977 magister znanosti iz kardiologije na Medicinski Fakulteti Univerze v Ljubljani | Master's degree in medicine (cardiology), University of Ljubljana
1980 doktorat znanosti iz kardiologije na Medicinski Fakulteti Univerze v Ljubljani | PhD degree in medicine, University of Ljubljana
1983 ustanovil studio J&J Design z bratom Jernejem | Founded J&J Design studio with his brother Jernej

Japec Jakopin je delal v letih 1976–1984 kot raziskovalni kardiolog na področju motenj srčnega ritma v skupini prof. dr. Matije Horvata na Medicinski fakulteti Univerze v Ljubljani in objavil ali sodeloval pri objavi 65 del iz te tematike. Leta 1983 je z bratom Jernejem ustanovil navtični načrtovalni studio J&J Design, v katerem dela še danes. J&J Design izdeluje načrte za serijsko gradnjo motornih jaht in jadrnic. Do sedaj je bilo izdelanih 320 projektov, po katerih je 60 ladjedelnic v 28 državah izdelalo več kot 60.000 plovil, kar postavlja studio na vodilno mesto na svetu. Značilnosti projektov so združitev nacionalnih navtičnih kultur v globalno priljubljene barke, vpeljava visoke tehnologije v izdelavo bark (blagovna znamka Shipman) in trajnostnih in okolju prijaznih tehnologij v navtiki (blagovna znamka Greenline). Jakopinovo delo je zasnova novih plovil.

Hibridna barka Greenline 33, ki jo je zasnoval Jakopin v letu 2008, je združila fotovoltaično tehnologijo, litijeve baterije in električno-dizelski pogon z novo obliko trupa. Tako je nastala prva serijska barka, ki pluje neslišno in brez nevarnih izpustov: izdelali smo več kot 550 bark v trideset državah po svetu.

Hybrid yacht Greenline 33, created by Jakopin in 2008, blended photovoltaic technology, Lithium batteries, and diesel-electric propulsion with new hull design. Five hundred fifty of the world's first production hybrid yacht sail without noise, vibrations, and zero emissions in 30 countries worldwide.

Japec Jakopin worked as a research cardiologist between 1976 and 1984 in the team of Professor Matija Horvat at the University of Ljubljana Medical school, publishing (or co-authoring) 65 works in the field of cardiac rhythm disturbances. In 1983 he founded with his brother a yacht design studio J&J Design where he is still active today. J&J Design provides design and engineering for the production of power and sailing yachts. In 320 projects for 60 boatbuilders from 28 countries, the design studio has helped create some 60,000 sailing and power yachts making J&J Design a world-leading production yacht design office. The main characteristics of J&J's work are blending national boating cultures and designs into globally best-selling yachts, the introduction of high-tech into boatbuilding (Shipman Carbon Yachts), and the application of sustainable and environmentally friendly technologies in boating (Greenline Hybrid yachts). The work of Jakopin involves the creation of new yacht design concepts.

Izbrana dela | Important Works

2008 Superdisplacement hull design patent; 2018 S.A.F.E. Platform patentlist of designs at www.jnj.design.

Izbrane nagrade | Selected Awards

1971,1972,1973 nagrada Univerze v Ljubljani za najboljše raziskovalno delo študentov | Best student research work award, University of Ljubljana

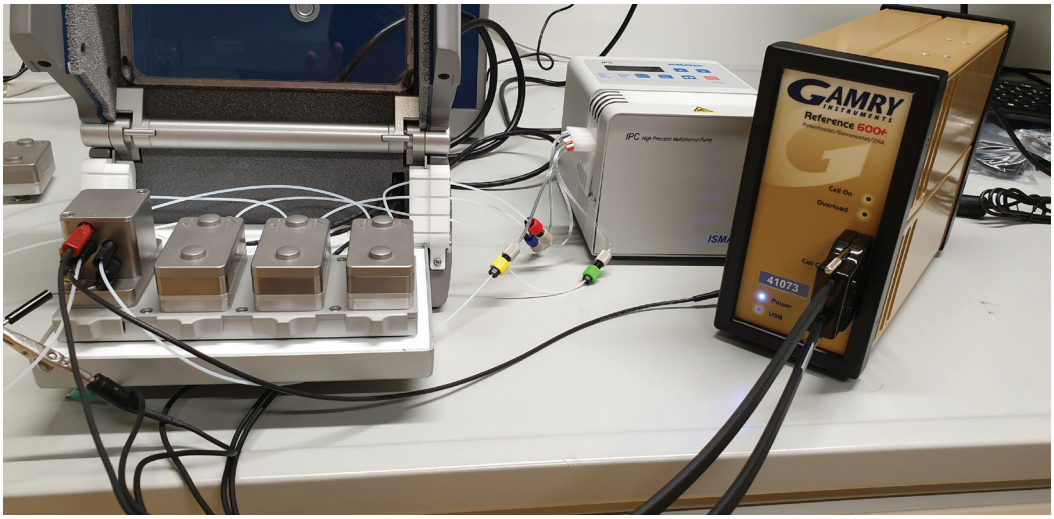
1995 nagrada Poslovnež leta | Businessman of the year

112 nagrad "Barka leta" ali design nagrada v 18 državah po svetu | 112 awards "Boat of the Year" or design awards in 18 countries

Karin Stana Kleinschek

1964 rojena v Mariboru | Born in Maribor, Slovenia
1992 magistrira | Master's, University of University of Maribor
1996 doktorira iz površinskih lastnosti obdelane celuloze | PhD on surface properties of processed cellulose at Karl Franzens University of Graz, Austria
1997 podoktorski študij na Karl Franzens Univerzi v Gradcu | Postdoc at KF University Graz, Austria
2007 redna profesorica | Full professor, University of Maribor
2019 redna profesorica | Full professor at University of Technology Graz, Austriaana

Karin Stana Kleinschek je diplomirala in magistrirala na Fakulteti za Strojništvo Univerze v Mariboru, s področja tekstilne kemije, kjer se je začela ukvarjati z vlaknotvornimi biopolimeri. Doktorski študij je zaključila na Univerzi Karl Franzens (KF) v Gradcu v Avstriji, na področju kemije. Na Inštitutu za fizikalno kemijo Univerze KF, kjer je delovala tudi v svojem podoktorskem izobraževanju, se je ukvarjala s preučevanjem površinskih lastnosti vlaknotvornih biopolimerov–polisaharidov. Le-ti so ostali njena glavna raziskovalna tema v času zaposlitve na Univerzi v Mariboru, kjer je dolga leta uspešno vodila Programsko skupino Tekstilna kemija, ki sodi med uspešnejše v Sloveniji. Svoje delo na področju uporabe polisaharidov v biomedicinske namene nadaljuje na Tehniški Univerzi v Gradcu, kjer kot redna profesorica za kemijsko tehnologijo biopolimerov vodi Inštitut za Kemijo in tehnologijo biosistemov.



Prof. Karin Stana Kleinschek dela na področju karakterizacije in površinskih modifikacij polisaharidov in njihove uporabe v biomedicinske namene. Uporaba Kvarčne mikrotehtnice s potenciostatom, za in situ spremljanje elektrokemijskih reakcij na mejnih slojih, odlikuje inovativen pristop raziskav na področju tkivnega inženirstva.

Prof. Karin Stana Kleinschek works in the field of the characterization and surface modification of polysaccharides, which are used in biomedical applications. The use of the Quartz crystal microbalance in combination with the potentiostat, for the in situ determination of the phenomenon on surfaces at solid/liquid interface, represents an innovative approach and is applicable in tissue engineering research.

Karin Stana Kleinschek obtained her PhD degree from the Institute of Physical Chemistry of the University of Graz, Austria. Her field of expertise is surface modification and the characterization of biopolymers, especially polysaccharides and their usability in biomedical applications, biomaterials, 3D bioprinting, and the development of new bioink and biopolymer composites. She led the Laboratory for Processing and Characterization of Polymers LCPP at the University of Maribor, Slovenia for more than 15 years and, as of 2020, is Head of the Institute of Chemistry and Technology of Bio-Based Systems, Faculty of Technical Chemistry, Chemical and Process Engineering, and Biotechnology, at the Graz University of Technology, Austria. She was also a full professor at the University of Maribor, Faculty of Electrical Engineering and Computer Science, Maribor. From 2011 to 2015, she was a Vice-Rector for Research and Development of the University of Maribor. She is a member of various scientific organizations and vice president of research of the European Polysaccharide Network of Excellence (EPNOE).

Izbrana dela | Important Works

K. Stana Kleinschek, V. Ribitsch (1998) Electrokinetic properties of cellulose fibers. Colloids and Surfaces 140.

T. Elschner, K. Stana Keinschek, et al. (2020) Modification of cellulose thin films with lysine moieties, Cellulose 25(1).

T. Mohan, K. Stana Kleinschek et al. (2020) Generic method for designing 3D bioscaffolds for tissue engineering applications. ACS Applied Bio Materials 3(2).

Izbrane nagrade | Selected Awards

2017 University of Maribor: Award for the best Scientific achievements at the University
2016 University of Maribor, Faculty of Mechanical Engineering: Award for the best research achievements in the Faculty
2004 Ministry for Higher Education and Research ARRS, Slovenia: Price for the best supervision of the PhD thesis
1988 University of Maribor: Award for the best Diploma thesis