

References and General data

Zoran Petrashkovich was born on May 28, 1955 in Dobra settlement, Golubac Municipality, Serbia. He entered the Construction Faculty of the University of Belgrade in 1973, graduated in 1979 received the degree in "Constructions". After the completing his studies he started to work in SOUR UTVA RO CELIK, Veliko Gradishte settlement where he was engaged in steel construction designing, technical training as well as project management. He had performed the function of OOUR Director till 1986. Then he transferred to the business association of manufactures of mounting construction members and objects IMEL Belgrade where he was engaged as a chief scientist and development supervisor till 1998. Then he transferred to IMS Institute, Belgrade, where he acted as researcher till 2005. Since then he works as a consultant in DC90 System – Innovation Centre for Seismic Engineering, Belgrade (joint-stock company ltd.) At the same time he heads the Innovation Centre of Inventors Union of Belgrade.

He entered the magistrate studies at the Construction Faculty of the University of Belgrade in 1982.

He passed all the examinations stipulated by the faculty statute in area of technique mechanics and the Theory of constructions. At the present moment he is working on his doctoral dissertation at the Construction Faculty of the University of Belgrade.

From 2007 he is a honorary member of Serbian Academy of Inventors (SAIN).

Zoran Petrashkovich is the inventor and the holder of **five patents: П 48040, МП 123-97, МП 124-97, МП 125-97, МП 126-97** and **two patent applications: П323-03 и РСТ/YU2003/000017**.

He published 45 research papers and presentations in national and international magazines, on congresses and symposiums. He supervised some Innovation projects financed by the Ministry of Science and Technology of the Republic of Serbia as well as took part in the science projects. He is a participant of the experimental team of the PROCHITEH Euro-Mediterranean project led by Prof. Dr. Macolani F.F. (Naples, Italy) and he engaged in resolving the problem of seismic protection of objects of historical value.

National and international awards:

Zoran Petrashkovich is a holder of many national and international awards, such as :

"YU EUREKA '96" , 16.10.1996, Belgrade;

-"Medaille d'or avec mention pour l'invention" - System DC 90, **Brusseles EUREKA '97**, Bruxelles, 11.11.1997;

-"Medaille d'or pour l'invention" - Flexible mould for cofferere ceiling production , **Brusseles EUREKA '97**, Bruxelles, 11.11.1997;

-"Gold award and Nikola Tesla Gold medal hors concours ", for System DC90 invention (System of seismic strengthening and protection of the constructions), Association of Inventors and Technical Innovations' Authors of Belgrade, Belgrade, 09.05.2003;

-"City of Belgrade Award for inventions in 2003", Municipality of Belgrade, Belgrade, 18.04.2004;

- "Genius cup" Award presented by the Association of Hungarian Inventors at the 25th international exhibition 'Inventions, Belgrade ", 2005;

Besides his research work he designed and realized several significant engineering projects, such as: the rehabilitation of the portal milling machine foundation at the machine room where the machinery of up to 800 KN are processed, Utva, Veliko Gradishte; projecting and realization of several sport centers (the last one is a sport centre in Golubac, Djerdap); experimental construction, testing and mass rehabilitation of the objects subjected to the earthquake in Kolubara region in 1998; development of the solution for the new Zhezhely bridge in Novi Sad on the Danube river, as well as the bridge in Uzhide, on the Cetina river; projecting and realization of printing machine foundation at Borba Company, Belgrade; seismic protection projecting at the Finland Ambassador Residence in Algeria; a number of other objects in construction building and bridge building. Since 2001 he works as a court expert.

He owns the license for projecting and execution presented by the Serbian Engineering Chamber. He is a member of the numerous expert associations and the Chairman of the Managing board of the 'Gospodjin Vir', Eco-Ethno Association, Djerdap. He is the author of several monographs, two of them are:

Seismic strengthening and object protection, Editor System DC 90, ISBN 86-906109-0-1, COBISS.SR-ID 120561420, CIP 699.842 и

Seismic strengthening and protection objects-design, System DC 90, ISBN 86-906109-1-X, COBISS.SR-ID 124911116, CIP 699.842

Scientific papers:

Zoran S. Petrashkovich has published the following Scientific papers:

1. Petrašković, Z., Šumarac, D., Andjelković, M., Miladinović, S., Trajković, M.: Sanacija oštećenih zidanih konstrukcija tehnologijom DC 90, *Integritet i vek konstrukcija*, Vol.5, br.2, 2005. str.71-76.
2. Petrašković, Z., Šumarac, D., J. Miladinović, S.: Dampéri-apsorberi seizmičke energije Sistem DC 90, JDK, Kongres konstruktera, Vrnjačka Banja, 2004.
3. Petrashkovich, Z., Shumarac, D., J. Miladinovich, S., Jankovich, T.: Dampers—absorbers of seismic energy of System DC 90, Institut IMS, Belgrade, 2004.
4. Tashkov, Lj., Manic, M., Petrashkovich, Z., Folich, R., Bulajich, B.: Experimental verification of dynamic behavior of “System DC 90” under seismic conditions, Belgrade 2003.
5. Petrashkovich, Z., J.Miladinovich, S.: System DC 90 – Technology of seismic strengthening of masonry structures of by applying vertical ties and diagonals with seismic energy absorber, Conference – Technology of seismic strengthening of masonry constructions – Institute IMS, Belgrade, 29.09.2003.
6. Petrashkovich, Z., Shumarac, D., Bulajich, B.: Mass retrofit of masonry structures by applying “System DC 90” technology, Belgrade, 2003.
7. Šumarac, D., Petrašković, Z.: Ilustrovana monografija - Neka iskustva na masovnoj sanaciji objekata oštećenih zemljotresom na teritoriji Kolubarskog okruga primenom tehnologije Sistem DC 90, Beograd, 2002. god.
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12. Petrašković, Z., J.Miladinović, S., Kovačević, S.: Seizmičko pojačanje nadogradnje objekata visokogradnje, JUDIMKa, Savetovanje - Nadogradnja stambenih i javnih zgrada, Beograd, 2000., str. 119-135.
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