Philippe Kruchten, Ph.D., P.Eng., FEC

Philippe Kruchten is professor of software engineering in the department of electrical and computer engineering of the University of British Columbia, in Vancouver, Canada. He joined UBC in 2004 after a 30+ year career in industry, where he worked mostly with large software-intensive systems design, in the domains of telecommunication, defense, aerospace and transportation. Some of his experience is embodied in the Rational Unified Process® (RUP®) whose development he directed from 1995 till 2003, when Rational Software was bought by IBM. RUP includes an architectural design method, known as “RUP 4+1 views”.

Ph. Kruchten has a diploma in mechanical engineering from Ecole Centrale de Lyon (ECL), Lyon, France (1975), and a Doctorate degree in Information systems from Ecole Nationale Supérieure des Télécommunications (ENST), Paris, France (1986).

His interests lie in software architecture and the software development process; more recently the phenomenon called “technical debt”. His most cited works are:

Ph. Kruchten has had a long association with IEEE Computer Society, in particular the IEEE Software magazine, for which he was an author many times (since 1986), then successively an industrial board member, an associate editor, and a column editor: The Sounding Board. In the IEEE standards association, he was one of the initiators and original contributors in 1995 to IEEE 1471: Architecture representation — now ISO/IEC/IEEE 42010. In Vancouver he is a member of the Computer chapter and was its chair in 2004-2006. He also contributed to the joint effort of IEE with the PMI to develop a Software extension to the PMBOK. He has chaired multiple times the IEEE Conference on Software Architecture and is the chair of its steering committee. He is also a founder and chair of the IFIP Working Group 2.10: Software architecture.

**Statement**

We need to be more active to bridge the growing gap between academia and industry, and make academic endeavours in software engineering more directly useful and relevant to industry. I want to continue to support software-related publications, and evolve their form and readership. We should also strive to evolve the way we organize-conferences to adapt them to the reality of 2017, and make them more accessible to practitioners.

We also need to raise the level of professionalism of software engineers: make it a recognized profession in various jurisdictions (as I have done in Canada), and integrate its purely technical components with other dimensions: ethics, sustainability, diversity.