Professor Peter Wriggers, corresponding member of the Croatian Academy of Sciences and Arts

Professor Peter Wriggers was elected as a corresponding member of the Croatian Academy of Sciences and Arts on May 10, 2018. He is a Full Professor at the Faculty of Mechanical Engineering, Leibniz University, Hannover. Currently, he is the Vice-President of the Leibniz University responsible for research. He graduated in Civil Engineering from the Technical University of Hannover in 1976. There he completed his Dr.-Ing. degree in December 1980 and after that worked as a postdoctoral fellow at the Civil Engineering Department at the Technical University of Hannover. In September 1983, he moved as a visiting scholar to the University of California, Berkeley, USA. In September 1984, he returned to Germany and started working as lecturer at the Department of Civil Engineering at the University of Hannover, where he finished his habilitation in 1986. From March 1988 to October 1988 he was a guest professor at the UC Berkeley. In 1990 he was hired as Full Professor of Mechanics at the Technical University Darmstadt. In 1998 he got the position Full Professor of Mechanics at the Department of Civil Engineering at the University of Hannover and moved to the Faculty of Mechanical Engineering in 2008.

In 2001 he introduced a new degree programme "Computational Engineering Science" for BSc and MSc students at the University of Hannover and founded the International Center for Engineering Sciences (ICCES). In 2007 he founded the Graduate School MUSIC (Multiscale Methods for Interface Coupling) that supports about 40 PhD students at the moment. This school also attracts numerous post-doctoral fellows and researchers from all over the world and thus generates a constant influx and exchange of different ideas and scientific approaches.

He has supervised 47 Ph.D. theses and 92 Master theses. Eight of his former students are now full professors at universities in Germany, Slovenia, Croatia, Turkey, UK and US. In cooperation with his former students he has had a significant impact on the creation of new scientific groups.

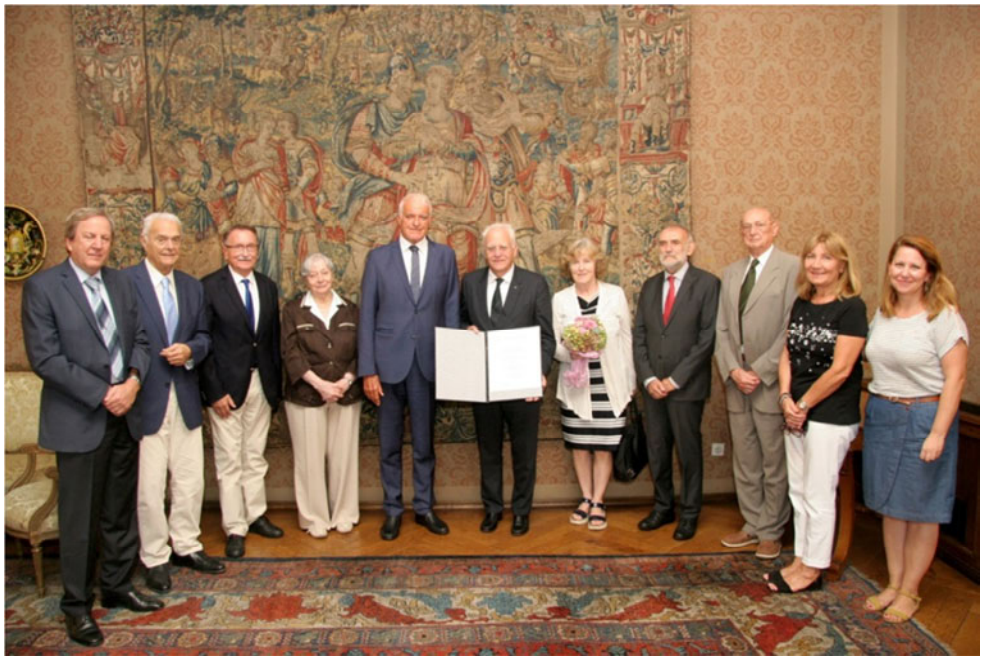
From 2008 to 2010 he was President of the International Association of Applied Mathematics and Mechanics (GAMM) and from 2011 to 2013 Vice-President of this association. In 2008 he became President of the German Association for Computational Mechanics (GACM). In 2010 he was elected Vice-President of the International Association of Computational Mechanics (IACM) and is responsible for the regions of Africa and Europe. In 2011 he was elected to the executive committee of the Applied Mechanics Division of the American Society of Mechanical Engineers (ASME) as the first foreign member, and at the moment he is Chair of the Executive Committee.

His manifold research activities are concerned with multidisciplinary applications. He has developed relevant theories and models of scientific and industrial relevance including the development of associated simulation software. His main areas of interest are: development of innovative finite element methods for solving contact problems**,** new mixed finite elements, new models and simulation techniques for the application in biomechanics**,** development of discrete elements techniques, development of new multiscale methods for coupled particle and finite element analysis, fluid-particle interaction problems for processes in chemical engineering, development of decision support systems in engineering.

Professor Wriggers has chaired the organization of a number of international conferences, colloquia and workshops. He has published 239 papers in scientific journals. He has written 13 textbooks (two as single author) and is editor of 13 books on different topics of Computational Mechanics and its application in Science and Engineering. He is editor of

three scientific journals and the book series “Lecture Notes in Applied and Computational Mechanics”. He is author of 17 chapters in books and more than 150 papers published in conference proceedings. He has more than 4280 citations (self-citations excluded) in the field of Computational Engineering Science. He has an h index of 38 (Web of Science) and 56 (Google Scholar). He is regularly invited to deliver keynote or plenary lectures at the most important International Conferences in Computational Engineering Science (30 plenary lectures and 31 keynote lectures in the last 20 years). For his research work he has been awarded many prizes and awards. He was awarded honorary doctorates by the University of Technology Poznan, the ENS Cachan Paris, and the TU Darmstadt. He is a member of the Academy of Science and Literature, Mainz, and the German National Academy of Engineering, “acatech”.

Professor Wriggers has had a fruitful collaboration with scientists from Croatian universities. He worked on joint projects with research groups from the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, and the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb. He visited both universities a few times and delivered lectures. He has regularly participated in the Croatian congresses of mechanics and usually delivered plenary lectures. In March 2017 he was a guest of the Croatian Academy of Sciences and Arts and gave the lecture titled „Computational Mechanics in Science and Engineering-Quo Vadis“, which attracted a large interest in the Croatian Computational Mechanics community. The lecture will be published in the Journal RAD, Technical Sciences, of the Croatian Academy of Sciences and Arts.



Professor Peter Wriggers received a charter of the Academy membership from President Zvonko Kusić on behalf of the Management Board

Ivo Senjanović Jurica Sorić