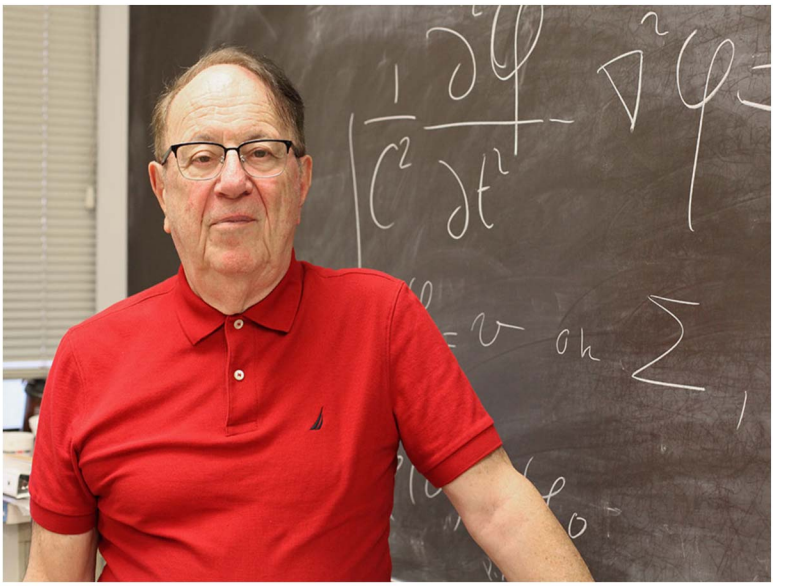
Annals of Mathematical Sciences and Applications
Volume 8, Number 3, 407–409, 2023

Special Issue Dedicated to the Memory of Professor Roland Glowinski



Roland Glowinski, who was an outstanding French-American mathematician in applied mathematics and scientific computing, passed away on January 26, 2022. He was born in Paris, and his scientific training began at the École Polytechnique, the most prestigious institution of higher learning in France. In 1963, he received a master's degree in electrical engineering from École Nationale Supérieure des Télécommunications. He completed a doctorate in mathematics in 1970 at the University of Paris VI Pierre and Marie Curie, where he was supervised by Jacques-Louis Lions.

In France, Roland was a scientific director at INRIA from 1970–1985 and a professor at the University of Paris VI Pierre and Marie Curie from 1970–1998. He served as the director of the European Center for Research and Advanced Education in Scientific Computing during the period of 1992–1994. He held adjunct professor positions at several universities, including Rice University since 1986, University of Jyväskylä in Finland since 2001, and University of Tennessee in Knoxville since 2008. Roland was also a visit-

ing professor at the Institute of Advanced Studies at Hong Kong University of Science and Technology since 2008 and Hong Kong Baptist University since 2015. He was an honorary professor at Fudan University, China, and professor emeritus at the University of Paris VI Pierre and Marie Curie.

A member of the University of Houston faculty since 1985, Roland's work had a significant impact on the development and growth of applied mathematics worldwide. Much of his work involved computer simulations to solve scientific, medical, and engineering problems. Over the years, his work addressed applications to mechanics, physics, aeronautics, engineering sciences, and biology.

Roland's relentless curiosity, patience, and willingness to listen were an asset. He had a natural ability to collaborate with people across a wide spectrum of scientific and engineering disciplines. This gift helped him amass an impressive international network of colleagues and friends. Throughout his career, he earned university, national, and international recognition. In 2002, Roland received UH's Esther Farfel Award, the highest accolade bestowed for faculty excellence. He was named a Fellow of the Society for Industrial and Applied Mathematics and an American Mathematics Society Fellow. In both cases, he was in the inaugural class of fellows.

Roland received the 2011 Computational Fluid Dynamics Award from the U.S. Association for Computational Mechanics. The award recognized his "outstanding contributions to establish computational mathematics for variational inequalities, extended domain methods, and others that enhanced computational fluid dynamics worldwide." His other honors for computational fluid dynamics include the Grand Prix Marcel Dassault from the French National Academy of Sciences and the Theodore von Kármán Prize from the Society for Industrial and Applied Mathematics. In 1989, he received the Seymour Cray Prize. Most recently, Roland received the 2020 W.T. and Idalia Reid Prize from the Society for Industrial and Applied Mathematics. The award recognized his work in differential equations and control theory. Receiving the award was special to him as his mentor Lions received the Reid Prize in 1998. He was an elected member of several prestigious academies, including the Academia Europea (1998), the French National Academy of Sciences (2005), and the French National Academy of Technology (2010). He was a Knight of the French Order of the Legion d'Honneur and an Officer of the French Order of the Academic Palms and French Order of National Merit.

During his career, he authored ten books and nearly four hundred scientific articles, which received more than eight thousand citations according to MathSciNet. Additionally, Roland's service as a member of the editorial

boards of multiple international journals has made tremendous contributions to the community of applied mathematics and scientific computing. He also enjoyed his role as advisor to numerous students and postdoctoral fellows, taking pleasure in watching the development of their careers.

As Roland's colleagues, coauthors, and friends, we are honored to edit this special issue, which is split to two parts (Issue 3, Volume 8 and Issue 1, Volume 9). Several contributions are due to experienced researchers and many of them have shared with Roland an intense scientific and personal collaboration. We want to thank all the Authors and Reviewers that made these Special Issues possible. It has been an honor for us to act as Guest Editors and contribute to the recognition of Roland's impact. We hope that the readers will enjoy it.

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