

## **BioSketch for Bourama Toni**

Dr. Bourama Toni is currently the Chair of the Department of Mathematics, Howard University. A graduate of the Université de Montréal, Montréal, Canada, Dr. Bourama Toni was Visiting Professor of Mathematics and Applied Mathematics at Brown University, Providence, Rhode Island, and Professor of Mathematics at Virginia State University, Virginia. In addition for the last three he has been Visiting Researcher in Applied Mathematics at Naval Undersea Warfare Center (NUWC), Newport, Rhode Island, and short-term Visiting Professor at Peking University, Beijing and Xi'an Jiaotong University, Xi'an, China.

Dr. Toni's research interests, primarily in Differential Analysis, include Archimedean and Non-Archimedean Dynamical Systems and their applications: Bifurcations of Critical Periods and Isochronous Systems; Almost and p-adic almost periodicity, including in the Berkovich Analytic spaces; Evolutionary Game Theory and Nash Limit Cycles in networked systems (behavioral and physical); Feedback Loops Analysis; Mathematics Modeling for Pharmacodynamics and Medicine; Numerical Analysis in Naval Research (Linear Solver; PDE for Cable Dynamics, Data Analysis with Cubic Splines under tension).

Dr. Toni's scholarly interests have also expanded over the years into Mathematics and Arts with a first solo exhibition in Fall 2014 of acrylic abstract paintings with proses. He is also the Founding and Managing Editor of the Interdisciplinary series STEAM-H of contributed volumes and monographs published by Springer the world-renowned publisher.