

## **Mathematical Biology and Applied Analysis Seminars**

Friday, September 27, 2019 15:00pm-16:00pm, Location: ENG-210

Professor Messoud Efendiyev  
James D. Murray Distinguished Visiting Professor  
University of Waterloo

Title: Mathematical modelling of life science problems

### Abstract:

We will consider mathematical modelling of life science problems, that in particular will include antibiotic disinfection of biofilms (population dynamics on mesoscale) as well as swelling of mitochondria (ODE-PDE coupling). New class of equations will be presented to demonstrate how biomedical models can have impact on mathematics.

### Brief Biography

Distinguished Diplom thesis, Moscow State University-1975 PhD thesis on topological methods,

1980-Moscow State University

1991-Alexander von Humboldt Lauerate, University of Stuttgart, Germany

At present Professor Dr. in the Helmholtz Center Munich, Germany

2018- Deans Distinguished Visiting Professor -University of Toronto

2019- James D. Murray Distinguished Visiting Professor-University of Waterloo

Author of 7 books and more than 160 published papers in the leading Journals, including proceedings of International Conferences.