



cordially invites you to an

Interdisciplinary Seminar

with

Dr. John R. Jungck

on

***“Exploring nanobiological structures with 3D nanotomography,
4D printing via self-assembly, and graph theory”***

Tuesday, October 2, 2018

3:30-5 p.m.

Reception & refreshments at 3 p.m.

Hallam Auditorium, Room 206

1122 Volunteer Boulevard



Dr. John R. Jungck, professor of biological sciences at the University of Delaware, has spent the past four decades enhancing quantitative education for life science students and researchers at all levels, including serving as long-term chair of the Society for Mathematical Biology Committee on Education and as the co-founder of BioQuest Curriculum Consortium, which was established in 1986. He is the former editor of *Biology International*, *Bioscene: Journal of College Biology Teaching*, *BioQUEST Library*, and *American Biology Teacher*; is an editorial board member of the *Bulletin of Mathematical Biology*, *Evolutionary Bioinformatics*, and the *American Journal of Undergraduate Research*. He edited special issues of *Mathematical Modelling of Natural Phenomena* and *CBE Life Science Education on Bio 2010*. His major research interests are in mathematical biology education, graph theory, molecular evolution, image analysis, and interdisciplinary work with artists.

Abstract: We have been doing 3D X-Ray nanotomography of radiolarian tests and studying them geometrically and topologically. Also, we have been 4D printing via self-assembly icosahedral viral capsid models. I will bring along a variety of models that we have built to illustrate our work.