

## WHY SHOULD EVERY SOCCER COACH KNOW MATHEMATICS, STATISTICS, AND BIOLOGY?

September 2018

Mathematics Colloquium Committee is hosting a colloquium on Friday, September 21, featuring Professor Olcay Akman from Illinois State University. All are welcome to attend. Following are the details of the colloquium:

Speaker: Professor Olcay Akman  
Center for Collaborative Studies in Mathematical Biology  
Illinois State University

Date: Friday, September 21

Time: 2:00 - 3:30 pm

Location: HE0100 PM

Title: Why Should Every Soccer Coach Know Mathematics, Statistics, and Biology?

Abstract: What is the similarity between slime mold colony and Dutch Style Football? How is the Barcelona midfield linked geometrically? How did FIFA use expected values to change long-established point system? Soccer is indeed a game of numbers, patterns, and shapes. The last several decades transformed soccer to utilize mathematical modeling that renders itself as the applications of a host of biological systems. With this talk, we will shed light on individual plays, team strategies, and league performances from mathematics and statistics points of view.

He will also be discussing an invitation for UW-W to join the Intercollegiate Biomathematics Alliance (IBA). He will be available after the talk for any questions.