

Welcome to MAA Short Course

## **An Introduction to the Mathematics of Biology**

**Presented by:** Edward Yeargers, Biology, Georgia Tech (retired)  
Ron Shonkwiler, Mathematics, Georgia Tech  
Jim Herod, Mathematics, Georgia Tech (retired)

### **Welcoming Remarks**

- (1) Fortuitous committee work.
- (2) Ga. Tech course requirements
- (3) Ga. Tech course clientele
- (4) Biology, Mathematics, and a math-biology lab
- (5) Materials available
- (6) Today's schedule

8:40 The Biology of Membranes  
9:15 The Mathematics of Diffusion and the Placenta  
9:50 Break  
10:00 The Immune System and HIV  
10:55 A Model for a Mutating Virus  
11:30 End of Short Course

**Reference:** *An Introduction to the Mathematics of Biology with computer algebra models* by Edward Yeargers, Ronald Shonkwiler, James Herod. Publisher: Birkhauser Boston, 1996.