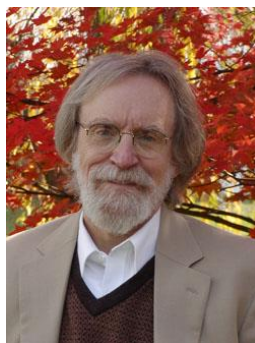


Ohio MAA Summer Short Course
June 25 – 27, 2024
1:00 – 3:00

***Euler in Twelve Theorems
(and Three Corollaries)***

William Dunham
Research Associate in Mathematics
Bryn Mawr College



In the course of six hours, spread across three days, I'll sample from the vast mathematical output of Leonhard Euler (1707 – 1783). Among the topics will be:

- The Basel problem (1734)
- The birth of analytic number theory (1737)
- Euler's first partition theorem (1740)
- Euler's identity (1748)
- Amicable numbers (1750)

The lectures require a familiarity with basic algebra, Euclidean geometry, trigonometry, and calculus – the only topics known to mathematicians in the early 18th century. From such modest pre-requisites, Euler pushed the frontier of our discipline in multiple, wonderful directions.

Laplace is said to have called Euler “The Master of Us All.” Our course should indicate why such a characterization is apt.

William Dunham is a historian of mathematics who has written four books on the subject: *Journey Through Genius*, *The Mathematical Universe*, *Euler: The Master of Us All*, and *The Calculus Gallery*. He was the MAA's George Pólya Lecturer from 2014 to 2016 and is featured in the Teaching Company's DVD course “Great Thinkers, Great Theorems.” Most recently, he co-edited an anthology from Cambridge University Press titled *The G. H. Hardy Reader*. Since Dunham retired from Muhlenberg College (*emeritus*, 2014), he has held visiting positions at Harvard, Princeton, Penn, Cornell, and at Bryn Mawr College, where he now is a Research Associate in Mathematics.

You can register at <https://form.jotform.com/240898595420164>. The cost for early registration is \$75.00 and ends on June 11. After June 11, the cost for registration is \$100. If you have any questions, please contact Jim Anderson at jim.anderson@utoledo.edu.