

Meeting: 1003, Atlanta, Georgia, MAA CP X1, MAA General Contributed Paper Session, I

1003-X1-346 **Jean W Richard*** (jrichard@bmcc.cuny.edu), BMCC, 199 Chambers Street, New York, NY 10007, and **Nkechi M Agwu** (nagwu@bmcc.cuny.edu), BMCC, 199 Chambers Street, New York, NY 10007. *Ancient Chinese Approach to Proof in Mathematics.*

This presentation will focus on the ancient Chinese approach to proof in mathematics. The presenters will discuss how, and why methods of proof in ancient China were constructive in comparison to the Greek axiomatic approach. They will use examples from ancient Chinese and Greek mathematics to illustrate this, such as, the Gougu Rule (otherwise known as the Pythagorean Theorem) and Lui Hui's method of deducing the volume of a sphere given in his commentary to The Nine Chapters of Mathematical Art. The presentation is based on the presenters' Fullbright scholarly research in China in summer 2004. (Received September 10, 2004)