

Meeting: 1003, Atlanta, Georgia, MAA CP X1

1003-X1-365 **Mohammad Moazzam*** (mxmoazzam@salisbury.edu), 1101 Camden Ave., Dept of Math & Computer Science, Salisbury University, Salisbury, MD 21801. *Buzanjani: An Intriguing Person!* Preliminary report.

Mohammad Buzjani, known as Abul-Vafa or Al-Buzjani, was a very well-known and honorable Persian Mathematician and one of the greatest Islamic philosophers of the tenth century. He made significant contributions in astronomy and in all areas of mathematics, especially plane and spherical trigonometry. He created a method for calculating the sine of half degree angle and then he calculated the sine, cosine, tangent and cotangent of angles from 0 0 to 90 0 with an increment of 15 minutes. His work in applied geometry was among the best and most interesting work which was published during the whole Islamic era. He also invented some tools in astronomy. Some of the members of French Science Academy believed that Buzjani was the first person who discovered the third Moon variation movement which is known as a discovery of Tycho Brahe (he was a learned from Danmark 1546-1601). In this talk the speaker will provide more information about this intriguing person and will discuss some of his contributions. (Received September 13, 2004)