. **NNN Notarized Scientific Notes of Dan E. Willard on August 25,2020**,

On August 20, I reported that after I gave Robert a class about logic (over Internet), I developed a much refined understanding about the Propositional Calculus version of the compactness theorem (appearing in Enderton's textbook). Now after an August 24 class, I developed a second improved proof of preceding, where the "unknown" symbol (for when a Boolean value is unknown) is called "Zip" or "Zippy", and a fourth symbol is a never-employed symbol, called "Oops" Here False, True, Zippy and Oops carry the numeral values of 0, 1, 2, and 3 in a "quadruple" analog of a decimal encoding.

I also want to record that I plan to telephone Peter Bloniarz tomorrow about a glitch in New York State security that he may not know about. It is that workers in the NYS bureaucracy are using their insecure home computers when servicing customers via transferred telephone calls. Since these workers have access to social security numbers, an obvious security breach is possible.

I also developed after talking to Robert an improved proof of Enderton's A-version of the Completeness Theorem. I don't have time to go into more details here about any of these topics because I need to do my taxes today. This records a continuation of my on-going research,