# Summer Quiz Crypto No.4

Correspondence of Houses of Nobility / Nomenclators

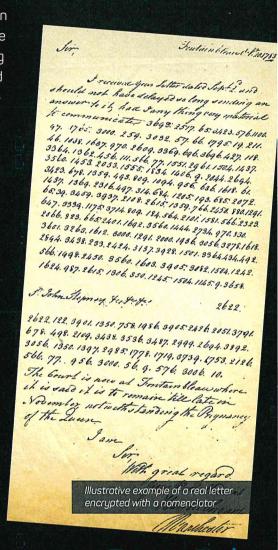


## Introduction

### Age of nomenclators

At the beginning of the fifteenth century, a new encryption method began to spread in southern Europe, arising from the need to find a cypher resistant to frequency analysis and allowing the relatively simple creation of an individual cypher. The method evolved from a homophonic substitution where, for greater complexity, codes for duplicate letters and frequent sullables were gradually added, and codes for the most widely used words and names were added, and finally, so-called deceivers, a non -significant group of characters - were added. All this was to make crypto-analysis of encrypted texts more difficult. The cypher thus created started to be called a nomenclator. This method had held for more than 500 years, even when much better and improved encryption methods were already known. The technique has an insurmountable advantage: its application is straightforward and, with a bit of skill, rapid. Anyone can also create their own nomenclator for themselves and their contacts!

During the Thirty Years' War, the use of nomenclators spread among noble families in the Kingdom of Bohemia. Hundreds of preserved encrypted letters and dozens of nomenclators preserved in Czech archives attest to this. For example, in the state district archive in Pilsen, several nomenclators from the 2<sup>nd</sup> half of the 17<sup>th</sup> century are preserved in the family archive of the House of Windischgrätz. Nomenclatures are available under inventory number 1403, and this is in Archive Carton 164. If you want to see them, you don't have to go to Pilsen, but you can download them here <a href="https://ecsc2021.cz/quizfiles/04/Karton164.zip">https://ecsc2021.cz/quizfiles/04/Karton164.zip</a>



## The Task

Based on this information, decipher/decrypt the following ciphertext. We will reveal that this is a fictional letter that describes the infamous events on the Liechtenstein estate of Velké Losiny, where the most extensive witch trials in Bohemia took place in the 1780s. In total, 250 people were burned, including Dean Lautner, who defended the witches.

Stead course, I still remember our last hunting meeting with Alnele Alfred. But, unfasturately, a lot has happened since then and made me so busy that I didn't even get to write a The Letter Etter. I have good new. As you peobably know, as the heir of my late deloved with visualia Slavatoria, for many year, I did not quite successfully try to asset only inheritance clasems and question the exitionary of the confivation of the property the Slavat family. My dispute has now been retited, in part in my favour. I 3M Have a sale with a part in my favour. exceived compensation of 300 thousand gold pieces and a peasing of revice at the court of our gracious comprise Leopold v. Irowell, some wints with one down. Governously know that the Levolin whate in Wilki claving and Sumper has seen a great with trial for sourced years; the withten did there mean business here to an unprecedented extent. Dozens have already been beened, but the process does not veen to end.

Tayitof Atair Lautnee, the Dean of Sumprek, is also armong those accured of withingt. No one can believe it. The is known as a faithful Catholic, an educated 12 38 74 54 43 96 40 39 53 28 41 33 49 21 41 84 39 10 39 11 27 56 59 85 54 43 92 97 33 47 43 56 54 39 51 84 48 36 46 78 85 42 49 41 88 46 57 46 37 46 39 68 57 39 8 42 19 35-9 22 39 11 70 70 20 70 46 69 87. 39 12 38 20 92 12 55 74 46 74 22 27 49 39 39 37 703 37 00 79 49 37 60 46 84 45 54 53, 56 33 47 58 39 12 55 53 39 10 39 78 89 60 54 49 82 41 51 43 84 45 54 53 58 14 36 46 85 14 37 46 39. 95+33 50 39 1172 86 42 46 37 60 <del>57 19</del> 37 20 7, 11+37 10 56 54 73 89 33 97 38 38 42 12 38 46 74-97 38 13 74-38, 13 41 57 22 37, 44 60 20 39 82 82 17 48 60 42 45 43 15 40 39 26 37 38 78 44 16 37 50 43 21 33, 41 13 7-78 5 37 47 56 54 12 38 46 71 97 38 78 13 74 38 8+69 99 37 46 +2 45 43 +9 37 20 7. 39 11 43, 39 11 799 7, 92 46 43 42 78 43 37 4 19 41 22 12 55, 60 47 70 39 70 10 39 30 69 14 54, 39 11 43 56 14 47 37 46 39 42 44 54 57 47 37 30 49 39 49 39 11 72 03 09 +54 45 74

In the encrypted part, in addition to the names of Dean Lautner and the Inquisitor, there is another name. As proof that you have deciphered the ciphertext, send the person's last name (in capital letters).

85 39 39 1138 39 37 60 6 74 3 38 80 79 49 37 60 46 84 45 54 53 99 60 33 47 59 40 39 44 84 40 39 88, 56 33 47 36 89 37 93 33 50 19 70 39 11 17 38 78 10 55 77 43 58 10 22, 11 82

11 46 10 54 16 33 50 42 39 5184 48 34 90 42 47 48 41 88 46 51 46 37 44 39 47 84 52 78 33 50 39 11 70 +9 37 20 7 70 -9 42 30 44 +9 47, 70 11 39 11 33 39 51 758 +9 26 47 50 52 70 33

68 47 44, 88 83 28 41 7492 37 39 10 39 55 68 43 43 49 39 11 40 33 92 37 38 53 26d 89 56 40 39 51 77 38 49 39 11 74 39 77 46 82 10 74 99 37 12 38 718 44 12 41 57 749 8 50 51

39 1135 37 74 88 454 56 60 39 51 73, 39 11 +8 38 5135 & 52 39 49 18 +3 33 43, 39 51 44 8453 57 89 63 41 8439 37 68 38 97 37 37 42 78 34 40 39 13-92 39 11+8 38 51 56 33 47 41 10 39 50 30 10 35 & 2733 50 30 86 738 21 56 10 39, 44 33 47 52 41 46 6 43 49 39 11 96 47 49 92 40 15 90 26 37, 56 33 47 50 97 37 22 33 70 39 54 43 35 4 43 99 37 12 55 44

50 to 19 2 38 10 7 48 22 37 43 59 26 4/13 38 53 26 47 39 11 54 87 17 37.

49 28 47 56 33 47 46 10 33 50 42 39 11 74 84 39 84 78 40 92.

Ban my quetings to your beautiful wife, Kunherta.

3 38 53 26 47 39 11 54 07 47 37.

Gattiel Amadeur Windischgrate



Quiz solution please fill before September 10th 2021 on web link: https://forms.office.com/r/fDAnyqRvfY

All solutions of the summer quizzes will be published at the time of the European Cyber Security Challenge (ECSC) 28.9-1.10.2021 at www.ecsc2021.cz



#### The ECSC Challenge

The European Cyber Security Challenge is an initiative of the European Union Agency for Cybersecurity (ENISA). It works with cybersecurity talent across Europe and helps connect them with leading organisations in the field.

Its main objective is to highlight the importance of national competitions and work with young people in the field of cybersecurity.

This year ECSC will take place in Prague between 28. 9. and 1. 10. 2021, and is organised by the AFCEA Czech chapter (as part of the activities of the European Cybersecurity Month). For more information, see <a href="https://www.ecsc2021.cz">www.ecsc2021.cz</a>