

# Young Tyros Newsletter

December 2019



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Staff – APEX DX ARDUINNA  
MSCREP PARROT

SO E-15 Ciphertext begins upper left, plaintext begins lower right.

APEX DX Cryptography Insight

## Andrew Seamone, APEX DX grandson. The apple falls not far from the tree.

Andrew is the son of Liz and Brian Seamone, and a Colorado University Cum Laude graduate with a Bachelor of Science degree in Civil Engineering and presently pursuing an Aero Space Engineering doctorate. He is the grandson of our ACA's APEX DX. Twenty-one year's of age, this past summer he was working at the National Institute of Standards and Technology in Gaithersburg, MD in their nuclear reactor research department. Cryptogram club lunches ran on Tuesday and Andrew signed up. After the first lecture, a cryptogram was posted and all who attended were given an hour to solve it. Andrew got it in twenty minutes - no one else was successful! Mother, Liz observes, "I like to think that my Dad has something to do with Andrew enjoying and "getting" problem solving." Sister, Olivia is an engineering student at McGill University in Montreal, Quebec, Canada and also has played with cryptograms under her grandfather's watch. Mother, Liz comments, "Dad would often transcribe cryptograms in large letters that he thought were appropriate for Andrew and Olivia's age and ability and have them curl up in a corner to "quietly" work away at them." Congratulations, Mom & Dad for a path well parented.

## Young Tyro Newsletters

In addition to this Senior Young Tyros Newsletters, we have two additional Newsletters published bimonthly for primary and secondary grade students. If you would like a family or friend youngster to receive one of these, please send us their name and E-Mail address.

**The Tyro Tutorial** is now available at our ACA web site under *Resources*. It describes the solution process to some thirty different cipher types and includes an appendix with a Railfence Template, Polyomino Congruent Squares by APEX DX, a comprehensive listing of Null variables by BION, an Algorithm process description, Foursquare Cipher digraph frequencies by RISHU, use of Google as a solving tool and the use of cryptology to bridge generation communication gaps while increasing a youngster's mathematical interest. Please direct any questions to LIONEL.

**Universal PhoeBee Circular Cipher Slide** – by **PHOENIX & HONEYBEE** – Used to solve Vigenere cipher types.

## Free Code and Cipher Books – Place an order. The mailing is also free.

*American Magic* - Levin

*Bacon Bi-literal Cypher* - Gallup

*Codes and Ciphers* – Wrixon

*Hitler's Spies* – Kahn

*Invitation to Cryptograms* – Williams

*Kahn on Codes* - Kahn

*Reader of Gentlemen's Mail* - Kahn

*Secret Codes & Ciphers* – Kohn

*Xenocrypt Handbook* - PHOENIX

## ZANAC's Gimme a Break – ND Aristocrats (may be digraphs / trigraphs) (1) unless otherwise stated

A-1, the (4), A-2, the (3), A-3, you (2), A-4, the, A-5, you (4), A-6, and, A-7, the, A-8, you (2), A-9, in (5) A-10, the (3), A-11, the (5), A-12, you (2), A-13, the, A-14, ing (2), A-15, the, A-16, the (2), A-17, and, A-18, an (2), A-19, e (13), A-20, the (2), A-21, the (4), A-22, the, A-23, dark, A-24, catch, , A-25, n (9).

## ZANAC's Gimme a Break - ND Patristocrats (may be digraphs / trigraphs) (1) unless otherwise stated

P-1, that (2), P-2, the, P-3, that, P-4, the (3), P-5, the (3), P-6, that, P-7, the (2), P-8, the (3), P-9, KQPHW =worst, P-10, GLXQ = wand, P-11, the (3), P-12, JLPB = lore, P-Sp-1, VQ = fa, P-Sp-2, QSEHS = Santa.

**SO. Ornamental. For Sale by Owner. PARROT:** Patriscocrat. The solution involves 2x3 blocks to letters. **BION**

**SO. A-24. Bitterness. K4.** Crosscheck ciphertext words with like letters. **PETROUSHKA**

**SO. P-11. Fundamental. K3. (99/23) (MUGY)** On habits. **BARK**

Opens with common five letter pattern word containing high letter frequency start.

**SO. X-6. Swedish. Sen upptackt. (insett)** (jag – 3) Proper noun – French Author. **OOBOO**

**SO. X-7. ???? K2 On the platform. (English key)** MSCREP: Danish language. **BARK**

**SO. X-11. Spanish Tridigital. Can you spare a coin? (hablar)** **EL CONDOR**

PARROT: Extended crib “hablar bueno” at position 68. Begins “Distraido”

**SO. X-Sp-1. German Numbered Key. The play’s the thing. (English key)** **BION**

Parrot: Extended key “fruehwirddeinesorgeseinwas” begins at position 34, digit “22”.

**SO.X-Sp-2. ???? Back to camp. (sur le chemin)** Parrot: Bazerics begins “Ils furent” **PARROT**

**SO. E-5. Pollux. Thirsty. (beer)** MSCREP: Crib begins at position 84. Plaintext begins “The” **MANDRAKE**

**SO. E-10. Baconian. The golden rule. (and)** Divide ciphertext into five letter segments. **CERE E. US**

Crib placement approximately half way through the ciphertext.

**SO. E-13. Swagman. Fabrege’ oops! (about)** Period Five. Begins “Easter” **L. TWIN**

**SO. E-15. Route Transposition. Unfortunate necessity.** **SOLDJER C**

MSCREP: 9 columns, eight rows. Alternating columns in, diagonals out. Begins “Law”

**SO. E-18. Tridigital. Watch and react. (necessary)** Begins “The” **EL CONDOR**

Find separator by finding only nine letter crib sequence between like digits.

**SO. E-24. Foursquare. A paean to pigs.** MSCREP: Extended crib “esmightremainhidden” at digraph 16. **G-MAN**

**SO. C-6. Prime additions. (Two words, 0-9)** Google prime number digits. **VERMONSTER**

W = 0. Find only digits that can be TEE and ESS.

**SO. C-12. Duodecimal fourth root. (Two words, (1-0)** **FUNERALLY**

Second seven letter word begins with “T” and ends with “D.”

**SO. AC-1236. ????. A specialist. (ZKLFKHALVWV)** MSREP: Period 13 Vigenere. **G-MAN**

**SO. AC-1239. ????. Tough history.** MSCREP: Two square beginning plaintext “Distant trials our” **BION**

**ND. A-24. Alarm signal. K3. (86)** Crow warning to hawk prey. **OZ**

**ND. P-Sp-1. Pure magic. K3. (95/18)** Start looks like “Santa” but begins with alliteration letter “F.” **CONFUOCO**

**ND. X-3. Dutch. Gender distinction. K1. (zich)** ST = ij **BARK**

**ND. X-9. French Morbit. We never learn. (memes)** Added crib: erreurs **THE DOC**

**ND. X-10. German Vigenere. Gartenarbeit. (heist)** Period Seven. Begins “Es” **ROKAK**

**ND. E-1. Gronsfeld. Health administration.** Key begins with key letters J, A and C of the Vigenere table. **OOBOO**

**ND. E-2. Railfence. Santa’s helpers.** Good Railfence learning cipher. No offsets, 1, 2, 3, 4 rail order. **LIONEL**

**ND. E-3. Morbit. Lord Byron on dogs. (with).** Crib placed at digits 68132 17 **ALCHEMYST**

**ND. E-4. Homophonic. Be careful. (tunnel)** Fourth letter in Key is “U.” “the” appears twice. **WORD WIZARD**

**ND. E-6. Key Phrase. Word it carefully. (answer)** Crib fits in only one place. Begins “You” **G4EGG**

**ND. E-7. Route Transp. Beware of summer treats. (ganache)** In, diag, out row, begins U. L. **DOPPELSHACH**

**ND. E-8. Vigenere. Tick-tock.** Plaintext begins “Whe....” **BRASSPOUNDER**

**ND. E-9. Grandpre. Credit where credit is due. (puzzles it shows)** Begins “Congratulations” **BACEDI**

**ND. E-10. Complete Col. Transp. What was its air speed? (verified)** Period Ten, begins “The” **FUNERALLY**

**ND. E-24. Inc. Col. Transp. The winds of war. (justice)** Period Ten, begins “The” **DARING FLAIR**

**ND. C-8. Addition. (No word, 0-9)** 0 = U, 4 = L, 9 = C. **ALCIBIADES**

**ND. C-14. Division. (Two words, 9-0)** 9 = F, 5 = Y, 0 = K. **L’L GAMIN**

**ND. AC-1241. Complete Columnar. What you learn from movies.** Pencil and paper solvers beware. **BION**

It appears that this Period Thirty-seven Complete Columnar Cipher was constructed for computer solvers only.

Sunny Cipherring, **LIONEL**