

# April 2023: Eureka!

By Mark Morin

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## ACROSS

1	James, whose invention of the steam engine helped kick off the Industrial Revolution
5	Watson, Crick & Wilkins won the 1962 Nobel Prize in Med. for their discovery of this double helix (abbr.)
8	Circular stunts at an airshow
13	Multinational corp.'s business region acronym, that's neither AMER (Americas) nor APAC (Asia-Pacific)
14	When it _____, it pours!
16	Charles, who would become the HMS Beagle's most famous passenger once he published his "On the Origin of Species"
17	Alexander Fleming's accidental discovery in 1928 that led to the 1945 Nobel Prize for medicine
19	Moscow money
20	The largest binary digit
21	Used a needle and thread
23	Indian string instruments
27	Canon Rebel camera model, or the ancient Greek goddess of dawn
28	Once around the racetrack
31	19th century plumber and inventor Thomas _____, famous for his flush toilet
33	Arthur Wynne's apt puzzle invention first published in 1913 in the New York World
36	Shine's partner in an annoying morning person's phrase
37	Sadly
39	Cypher machine invented by Arthur Scherbius and used by Nazi Germany in WWII
40	Direction halfway between nord and sud
41	E to Samuel Morse, inventor of the telegraph
42	Greek god of love
43	Revolutionary invention by un-named Mesopotamians circa 4500-3300 BCE
46	With 82-Across, scientist whose laws of motion required him to first invent a new branch of mathematics: Calculus
48	Nikola who invented the AC induction motor and successfully promoted alternating current for electric power distribution, in opposition to Edison's DC
52	Mountain near Kamloops BC that, despite its 1748m peak, sounds like it might be the opposite of "hihi"
54	Language spoken in Vientiane
55	Videoconference need, for short
56	Short form of a given name, from the trojan priestess of Greek mythology whose true prophecies were fated to never be believed
59	One of three in a hat-trick
60	Despise
61	15th century German inventor of the moveable-type printing press
63	Diabetes medication developed in Canada by Frederick Banting and Charles Best
66	Where birds fly, with "the"
67	The ___ Khan, who hosted Justin Trudeau and family on his private island in 2016, provoking a scandal
68	Go to, as a school
69	Feeling of anxiety
71	U.S. lawyer's org.
72	Greek god or NASA's lunar program
76	Thomas Edison invention, among many others
82	See 46-Across
83	Cancel, as a mission, or apply elbow grease
84	In 1913, Niels Bohr and Ernest Rutherford first presented the model of this, consisting of a small dense nucleus surrounded by orbiting electrons
85	Inventor Alfred Nobel (dynamite) or Anders Celsius (the temperature scale), ethnically
86	Pronom possessif pluriel
87	Cat, dog and rock (during a brief 1970s fad)

## DOWN

1	Not-so-secure obsolete Wifi privacy choice. It's better to use WPA2
2	Soul of Montreal
3	Finger count, and common base for 28-Down
4	Mai-____, cocktail said to have been invented at Trader Vic's restaurant in Oakland, CA
5	Carnegie or Earnhardt
6	It's nothing
7	Black cuckoo birds that sound like they might taste like licorice
8	Praise (lowly?)
9	Sphere
10	Nocturnal bird
11	Dessert containing two mathematical constants: 3.14159... and 2.71828...
12	Former jrs
14	Shampoo instruction step
15	Contemptuous looks
16	Place to store socks, underwear and folded T-shirts
18	Inc. company
22	Court romantically
23	Fastener with a head that may be slotted, Phillips or (in Canada) Robertson (i.e. square)
24	Scientists 1st Baron of Kelvin (of the absolute temp. scale) & Robert Boyle (of Boyle's gas law), ethnically
25	Tongue test
26	Large primate
28	Inverse exponent function invented by John Napier in 1614, shortened to fit on a calculator key
29	Sleeve filler
30	Kissing on the subway, say, or a pre smart-phone device such as a PalmPilot (abbr.)
32	Guglielmo Marconi's invention that earned him the 1909 Nobel Prize in physics
33	Product list, e.g. for mail-order
34	Runny nose discharge, to a kid
35	Suffix for clock, or description for a 10-Down
38	The, in Spanish
42	Bacterium discovered by (and partly named for) Theodor Escherich in 1885. Pathogenic varieties cause food poisoning, meningitis, or urinary tract infections
44	Ultimatum word after "or"
45	Tender cut of beef or pork, or French for far
47	Small battery format, or top bond rating
49	Weighing device used since 2600 BCE Egypt
50	Language of the Roman Empire
51	Revise, as a document
53	Country with a cedar tree on its flag
56	Units of mass equal to tens of mgs
57	Bird resembling, but not related to a penguin
58	Pig pen
59	Clutches, or understands
60	Simple building
62	Easter treat, if you can find it
64	Bigwig coffee brand
65	Doe's mate
69	Skin cream ingredient
70	Psychoactive constituents of cannabis (abbr., pl.)
71	Rectum
72	Years, in French
73	Church seat
74	Montreal's olympic stadium, AKA "The Big ____", due to its 10x cost overrun and lingering debt
75	Abbr. following a 18-Down's name
77	Mine output
78	Drake's musical genre
79	Had lunch
80	Stove-top cookware
81	Letters before a British ship name