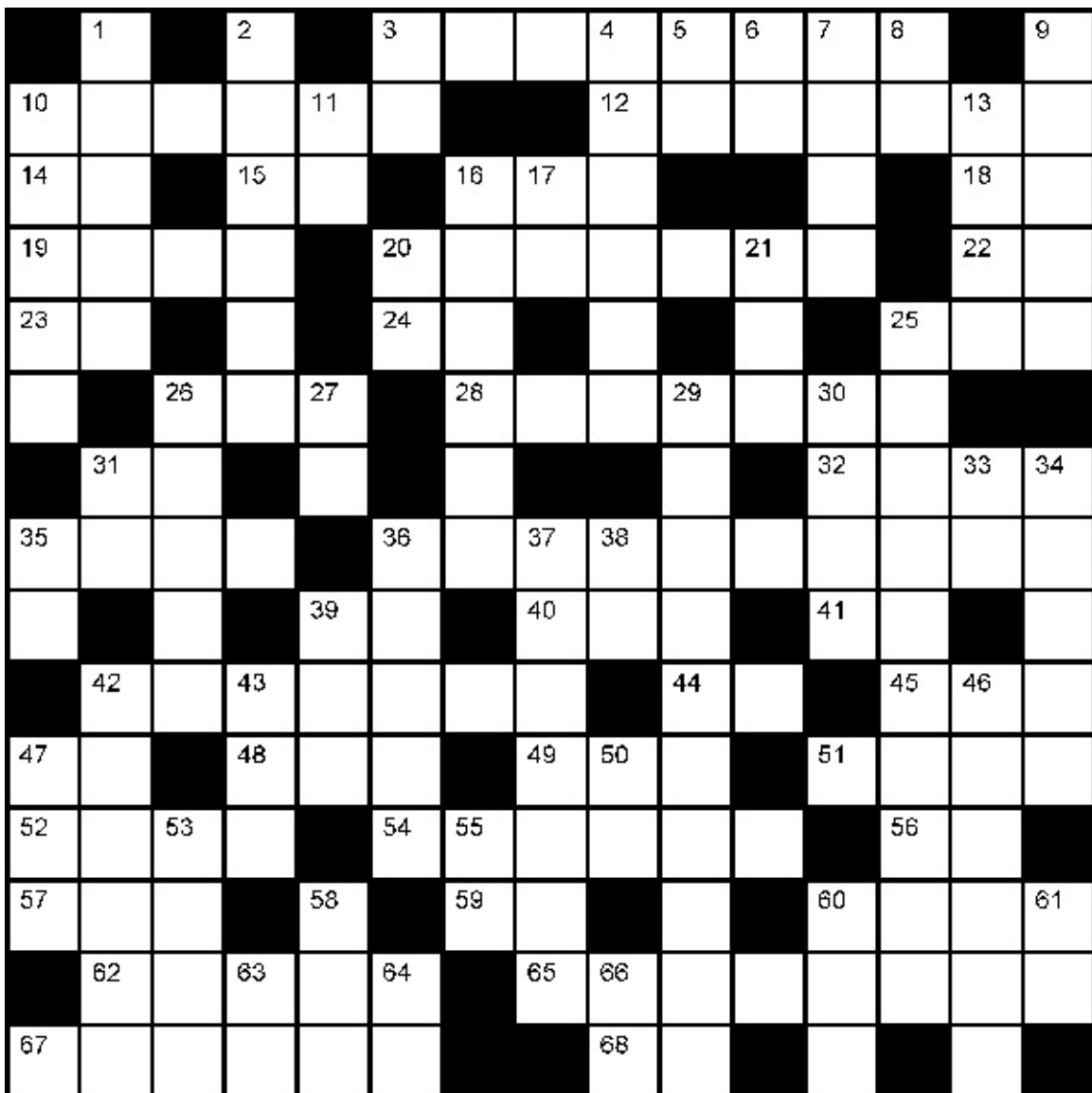


Amateur Radio Crossword Puzzler

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Contributing Editor
October 12, 2007

You May Fire When Ready, Gridley

The oldest active electronic component of all--the vacuum tube--remains an important part of radio. It has characteristics that semiconductors just can't yet match and so glows cheery and warm against the night, amplifying our signals into electromagnetic dreadnoughts. How about a puzzle featuring the topics of the tube?



Across

3. FCC term for a transmitted signal
10. Strong, such as a signal from an amplifier
12. Electrode from which electrons begin their journey
14. Type of current from the power grid
15. Battery capacity (units)
16. Used with "dodger" in the movies
18. Local ARES leader (abbr)
19. Satisfy
20. Amplifiers used for SSB signals
22. Nano-mega-amp (abbr)
23. What dashes represent
24. Partner to TCP in Internet traffic
25. Unerasable memory
26. Maximum backwards potential (abbr)
28. Tube with five electrodes
31. Tones used to control receiver squelch (abbr)
32. Agency that monitors workplace safety (acronym)
35. Highest value
36. Steering coils or plates in a CRT
39. Machine thinking
40. Character (abbr)
41. Upcoming ARRL contest (abbr)
42. Tube with four electrodes
44. Amplification factor
45. Just a little
47. CW for "dear"
48. Distortion from signals interacting (abbr)
49. CW for "many"

51. Operating area that doesn't overload the tube
52. Current or voltage that sets an operating point
54. Discovered electrons given off by one electrode will flow to a more positive electrode
56. Uses the VO1 prefix (postal code)
57. A less polite term than "pileup"
59. Morocco's prefix
60. Manufacturer of DSTAR equipment
62. Load to use while testing
65. Resistor that limits charge accumulation on a tube's grid (two words)
67. Electrode that absorbs gasses in a tube
68. Component types that make a tuned circuit

Down

1. CRT grid that sharpens the electron beam
2. Boils off electrons
3. From outer space (abbr)
4. Grid that controls secondary emissions
5. Continent of the Amazon (abbr)
6. Network technology department (abbr)
7. Units of 25 Down
8. Contacts not usually closed (abbr)
9. The first European color TV standard
10. Partner to "cut"
11. New England state (postal code)
13. Early version of product for review
16. AC variations on a dc power supply
17. CW signoff after sunset
20. Element used in rechargeable batteries (chemical symbol)
21. Greek letter symbolizing conductivity
25. Ratio of voltage to current
26. Most positive electrode
27. Audio voltage units
29. General term for giving off electrons by heating
30. Shortest CW elements
31. Professional that stamps tower plans (abbr)
33. Small model train scale
34. Opposite of 12 Across
35. Follows the signature
36. Tube with two elements
37. Inventor of first practical vacuum tube
38. CW for "light"
39. To make ready
42. Tube with three electrodes
43. ARRL's online tech reference
46. Not asunk
47. Unit of power referenced to a milliwatt
50. Period of a 1 GHz signal
53. Next to or against
55. Non-oscillatory signal
58. Reflective mode of communication
60. Microwave system to land planes safely
61. One of the two RTTY signal states (abbr)
63. Large 7th district state (postal code)
64. CW for "your"
66. Inductor resistance (symbol)

SOLUTION

	T		S		C	L ⁶⁸		R	E	T	T	E	G ⁶⁷
K	A	E	L	D	I	R ⁶⁶	G ⁶⁵		Y ⁶⁴	M ⁶³	U	D ⁶²	
M ⁶¹	O	C	I ⁶⁰		N		N ⁵⁹	C ⁵⁸	E ⁵⁸		B	O	M ⁵⁷
	L	N ⁵⁶		N	O	S	I	D ⁵⁵	E ⁵⁴		S	A ⁵³	B ⁵²
E	F	A	S ⁵¹		I	N	M ⁵⁰		D ⁴⁹	M	I ⁴⁸		D ⁴⁷
D	A ⁴⁶	T ⁴⁵		U	M ⁴⁴		E	D	O	R	T ⁴³	E	T ⁴²
O		S	S ⁴¹		R	T	L ⁴⁰		I	A ³⁹		T	
N	O	I	T	C	E	L ³⁸	F ³⁷	E ³⁶	D ³⁶		K	A	P ³⁵
A ³⁴	H ³³	S ³²	O ³²		H			L		U		L	P ³¹
		E	D ³⁰	O ²⁹	T ²⁹	N	E	P ²⁸		V ²⁷	R	P ²⁶	E
M	O	R ²⁵		H		E		P	I ²⁴		E		T ²³
A	M ²²		S	R ²¹	A	E	N	I	L ²⁰		T	I	S ¹⁹
C	E ¹⁸		M			R	G ¹⁷	R ¹⁶		H	A ¹⁵		A ¹⁴
E	D ¹³	O	H	T	A	C ¹²			T	N ¹¹	E	T	P ¹⁰
S ⁹		N ⁸	O ⁷	I ⁶	S ⁵	S ⁴	I ⁴	M	I ³	E ³		H ²	F ¹