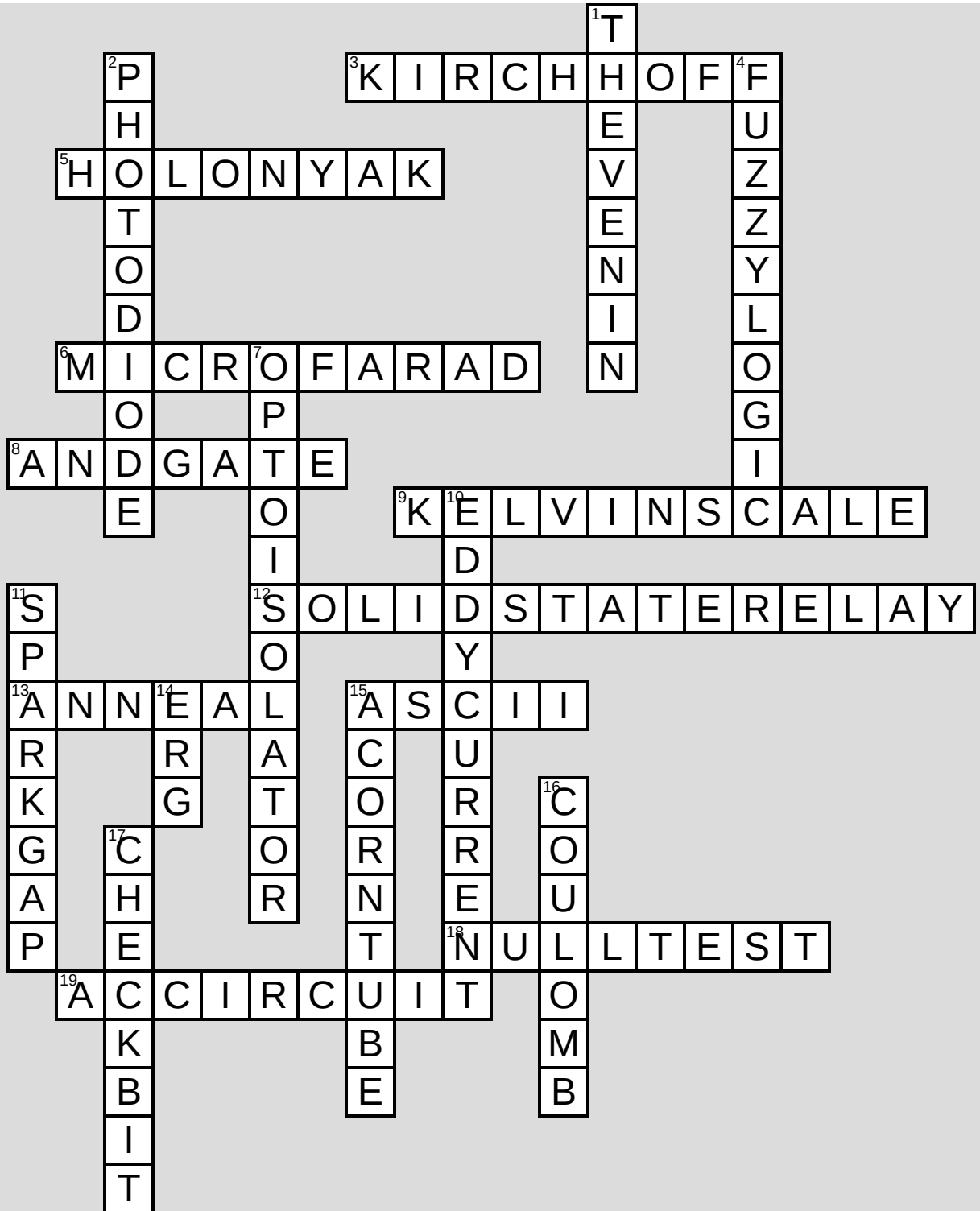


# #63



## Across

- 3** Created a law of thermochemistry
- 5** Invented the LED while working at General Electric in the 1960s
- 6** 1,000,000 pF
- 8** Relies on truth and logic [two words]
- 9** Temperature scale where 0° = absolute zero [two words]
- 12** Doesn't rely on movement or contact to switch electric circuits [three words]
- 13** Run hot and cold
- 15** A character-encoding system used to represent text
- 18** Cancels a device's signal input by negative feedback from its output [two words]
- 19** A circuit with a current that goes one way and then another [two words]

## Down

- 1** French engineer (1857–1926); augmented Ohm's law
- 2** Turns light into current or voltage
- 4** Began in 1965 with Lotfi Zadeh's proposal of a certain type of set theory [two words]
- 7** Changes electrical signals to light and back into electrical signals
- 10** A.k.a. Foucault currents [two words]
- 11** A space in an otherwise closed electric circuit [two words]
- 14** Causes 1 cm of movement
- 15** A small tube used at very high frequencies [two words]
- 16** One of these is equal to  $6.28 \times 10^{18}$  electrons
- 17** Adds a bit to make things even or odd [two words]