The Ambidextrous Puzzle

a G4G cryptic crossword by Henri Picciotto

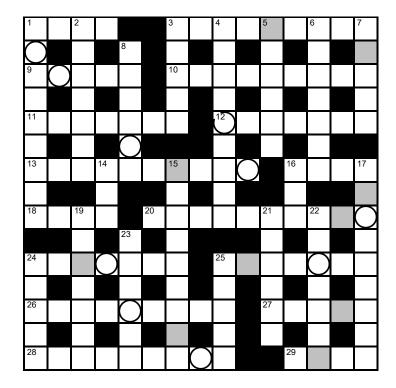
Italicized clues consist of definitions for two ambidextlousry related words. Which of the two you enter into the diagram will become clear if you make sure that when the diagram is filled, you can shade in three additional squares, and circle two additional letters, so that all 13 shaded squares, and all 12 circled letters respectively spell relevant two-word phrases if read from left to right in each row, top row to bottom row.

Across

- 1 Accommodated a flock (4)
- 3 Café is toxic: head of management requests protective gear (4,5)
- 9 Affected one thousand new wave rockers' comeback (5)
- 10 Commercial time interrupted by guys and dudes, for a change (9)
- 11 Officer and medical investigator (7)
- 12 Lit relatives (7)
- 13 To dine poorly, ingest LSD, facing backwards to show real commitment (10)
- 16 Early man's a mother (4)
- 18 Peasant personality (4)
- 20 Imploring search engine to include rotten cheese (10)
- 24 Most significant (optimal) outside irregular gig (7)
- 25 Nonstandard and brave (7)
- 26 Confines Henry in (oops!) non-union establishments (4,5)
- 27 Digression from unorthodox ideas (5)
- 28 Fraudulent course by Rolling Stone (9)
- 29 Fresh skin (4)

Down

- 1 Murders Vietnamese leader with audio equipment on fateful date (9)
- 2 Admired and knocked down (7)
- 3 Weak talent (5)
- 4 Heck! Bee on broken part of skull (9)
- 5 Arab city switching final pair from the middle of the road (6)
- 6 Driven and strengthened (7)
- 7 Full of chopped dates (5)
- 8 Unspoiled in Sweden: iceberg (6)
- 14 Is equivalent to stiffer core (3)
- 15 Blackjack: Cheating Tony's left inside at end of game (6-3)



- 16 Tree has deteriorated (3)
- 17 Most powerful, outwardly goth connections in New England university (9)
- 19 Move backwards, missing limbs (7)
- 21 Gather together and apprehend (6)
- 22 Visualize one crazy enigma (7)
- 23 Reaches exit, having failed test (4,2)
- 24 Derek, seen over reference work, expressed disapproval (5)
- 25 Call 5 was tagged, apparently (5)