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Friedrich August Kekulé concludes that the structure of benzene is a closed, hexagonal, six-membered ring after a visionary dream.

"...I was sitting writing on my textbook, but the work did not progress; my thoughts were elsewhere. I turned my chair to the fire and dozed. Again the atoms were gamboling before my eyes. This time the smaller groups kept modestly in the background. My mental eye, rendered more acute by the repeated visions of the kind, could now distinguish larger structures of manifold conformation; long rows sometimes more closely fitted together all twining and twisting in snakelike motion. But look! What was that? One of the snakes had seized hold of its own tail, and the form whirled mockingly before my eyes. As if by a flash of lightning I awoke; and this time also I spent the rest of the night in working out the consequences of the hypothesis.

Sleep, Memory and Emotion Regulation

People recalled memories while being scanned, either after day spent awake or night of sleep

What Happens When You are Sleep Deprived?

•After sleep deprivation, only remember negative information - not positive or neutral

Walker et al., 2008

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Conclusions

Sleep selectively benefits emotional memory while also helping us regulate emotion

Sleep doesn't "consolidate" existing memories by simply making them stronger

Rather, it goes beyond this, transforming memories -- integrating them, extracting generalities and emphasizing what's important

May shed light on the fact that what we remember is not always (nor typically) what we actually experience

May allow errors and inaccuracies

Magritte, The human condition, 1933, Washington DC: NGA

Leads to memories that are flexible and adaptive, 1933, Washington DC: NGA and allows for creativity

