Norther Question

A birthday candle burns in a deep drinking glass. When the glass is whirled around in a circular path, say held at arm's length while one is spinning like an ice skater, which way does the candle flame point?



CONCEPTUAL Physics

Nonteno Examples

A birthday candle burns in a deep drinking glass. When the glass is whirled around in a circular path, say held at arm's length while one is spinning like an ice skater, which way does the candle flame point?

Answer: inward

CONCEPTUAL Physics

The candle flame points inward, toward the center of the circular motion. This is because the air in the glass is more dense than the flame and "sloshes" to the farther part of the glass. The greater air pressure at the farther part of the inner glass then buoys the flame to the region of lesser pressure—inward.

