

# UMT Researchers Look to Honey Bees for Decision Making Guidance

*A promising model for group decision making*

ROSSLYN, VIRGINIA, UNITED STATES, February 26, 2017 /EINPresswire.com/ -- Which is better: Decisions made by a group or by individuals? Humans are split on this issue. Half say groups and half individuals. But honey bees are unanimous: the way to go is to make group decisions.



Honey bees invented social media! We can learn a lot from them. Today, social media has focused attention on the actions and preferences of groups over individuals.”

*J. Davidson Frame, PhD*

J. Davidson Frame, a professor of decision science at the University of Management and Technology, explores this preference in his book, *Framing Decisions: Making Decisions that Account for Irrationality, People, and Constraints* (San Francisco: Jossey-Bass). He points out that the matter of group decision making vs. individual decision making has been debated endlessly over the decades, putting countless university students to sleep in the classroom. That is, until today. What makes the issue gripping these days is that the

power of social media -- particularly crowd sourcing and "likes" registered on Facebook -- has focused attention on the actions and preferences of groups over individuals.

So how do bees do it? It turns out that in the spring, after passing the winter in torpor, bees often split into two groups in order to avoid over-populating the hive. The queen deposits several eggs that are destined to grow future queen bees for the existing hive. Then she and a large portion of worker bees leave the hive as a swarm and settle at a nearby site, often on the branch of a tree. A hundred or so scouts fan out to find a new home. When an individual bee encounters a likely site, she returns to the swarm and performs a waggle dance. This dance serves two functions. First, the dance reflects the quality of the site: the more energetic the dance, the better the site. The second function of the waggle dance is to indicate where the site is: the attitude of the dance indicates the direction of the site (for example, it can be located 20 degrees to the left of the sun), while the number of waggles indicates distance (for example, six waggles may indicate a distance of 300 meters).

This process encourages other bees to visit the site. If they like it, they return to the swarm, do their waggle dance and encourage more visitors. At a certain point, when a critical mass of visitors express favor with the site, they vibrate their wings vigorously, creating a loud hum. This indicates the decision has been made. "Debate" is ended. The swarm then flies collectively to the site and builds a new hive.

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