

it was returned to the nest once more, only to be finally removed by 2:33 p.m. and dropped about 32" from the nest entrance. At this time the 3 cocoons treated with oleic acid, the 3 treated with methylbenzylamine, and the remaining 2 treated with caproic acid were still in place on the cardboards, and a few grains of earth had been deposited about each. They were permanently ignored.

Reactions of workers of *Myrmecia vindex* to

Triethanolamine: n-Valeric acid; Oleic acid

The same experimental arrangement was set up, using another colony of *M. vindex*, taken from the same population in Kings Park, Perth, West Australia, on January 10, 1965. Cocoons were treated as before:

Triethanolamine (3 drops)	3 cocoons
n-Valeric acid (3 drops)	3 cocoons
Oleic acid (3 drops)	3 cocoons

3 cocoons were retained as controls.

The 12 cocoons were arranged radially about the nest entrance, the control and the oleic acid groups furthest from it. Exposure was begun at 2:47 p.m.

Triethanolamine proved a powerful attractant, and the cocoons treated with it aroused immediate and intense attention. Within 3 minutes, 1 was dragged into the nest. At 2:51 a second triethanolamine-treated cocoon was dragged to the nest entrance and dropped. At 2:52 the third was carried to the oleic-acid-treated group outside the nest and dropped there. Two control cocoons were carried into the nest at the same time. A spot of triethanolamine stain on the containing card was repeatedly examined by workers.

The second triethanolamine-treated cocoon, which was deposited initially near the nest entrance, at 2:56 p.m. was carried to a midden 45.5" away; it was then picked up almost immediately and re-deposited at a distance of 40". At 3:02 the triethanolamine-treated cocoon which had first been brought into the nest was taken out, carried to a point about 9" away, and dropped. Earth grains had been deposited about the n-valeric acid group. The 3 oleic-acid-treated cocoons had not been moved nor buried. By 4:00 p.m. all three triethanolamine-treated cocoons had been discarded in a group 39" from the nest entrance; 1 control cocoon was still in place; and all 6 cocoons treated with n-valeric and oleic acid remained in their initial position. At 4:50 p.m. there had been no further change and the run was terminated.