RACHAEL E. TILKA, Jessica M. Rocheleau, & Douglas A. Johnson Western Michigan University May 25th, 2015 Association for Behavior Analysis International 41st Annual Convention, San Antonio, TX Correspondence: rachael.e.tilka@wmich.edu

 Slide 1

 Image: Slide 1

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- Performance feedback, both in isolation and in combination with other intervention components, has long remained one of the most commonly studied and implemented variables
- It is a popular intervention used both in the organizational behavior management literature and in other fields of study



interventions

- Narrow focus in research questions:
 - How feedback impacts behavior
 - The seeking of feedback

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 Example: Praise can function as a reinforcer while constructive criticism can function as a punisher. One can see how this could lead to entirely different behaviors and therefore different results

to its many

different

functions

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- Breadth of the term can lead to confusion:
 - Why sometimes effective? 0
 - Why sometimes 0 ineffective?





Cooking analogy: Feedback, like many interventions can be thought of as a recipe. Much like changing one simple ingredient can lead to an entirely different tasting dish, changing one piece of an intervention can lead to completely different results. Accuracy of the feedback, frequency of provision, whether it is individualized, etc. can all be thought of ingredients in our recipe for feedback

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- Purpose of present study:
- To explore the effects of
- (a) delivering contingent or noncontingent feedback that is
- (b) supportive or critical on the number of checks completed correctly by college students during a work simulation task.

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Slide 10 **Participants and Setting**• 118 undergraduate students
• A computerized data entry task

- 118 undergraduate students
- Experimental Task
 - A computerized data entry task involving the entry of dollar amounts that appeared on simulated bank checks
 - At the end of the task the number of checks correctly entered was displayed

- Contingent Independent Contingent Independent Contingent Independent Contingent Independent Contingent Independent
- 1. Mode of feedback delivery
 - a. Contingent delivery
 - b. Independent delivery
- 2. Category of evaluative feedback
 - a. Supportive
 - b. Critical

- Participants were randomly assigned to one of four experimental conditions:
 - Contingent and Supportive feedback
 - Contingent and Critical feedback,
 - Independent and Supportive feedback,
 - Independent and Critical feedback



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Slide 13 Contingent and Supportive Feedback If improvement from previous best: ent Experimenter read one of seven supportive statements at the beginning of the experimental session If decline or no change from previous best: No evaluative statements at the beginning of the experimental session were read



- If improvement from previous best:
 - Experimenter read one of seven supportive statements at the beginning of the experimental session
- If decline or no change from previous best:
 - No evaluative statements at the beginning of the experimental session were read
- Example supportive statement: "Regarding your performance during last session, that was an impressive improvement. Keep up the great work!"
- If decline as compared to previous best:
 - Experimenter read one of seven critical statements at the beginning of the experimental session
- If improvement or no change from previous best:
 - No evaluative statements at the beginning of the experimental session were read
- Example critical statement: "Regarding your performance during last session, that wasn't an impressive performance. Let's see if you could improve today

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Feedback

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Slide 18 Cause effect ettice The results demonstrate a greater gain in performance for the two contingent feedback conditions as compared with the two independent feedback conditions (*p* = 0.025)

No differences in productivity found

in regard to evaluation categories

Supportive

Critical

Slide 19

• The results demonstrate a greater gain in performance for the two contingent feedback conditions as compared with the two independent feedback conditions.

- No differences in productivity found in regard to evaluation categories
 - Supportive
 - Critical
- However, other possible side effects should also be considered
 - Issues related to job satisfaction, turnover, etc.



- Across both the supportive and critical conditions, independent feedback proved to be less effective at producing gains in performance than contingent feedback
- The present study extends that previous research by showing that although evaluative feedback may be important, ensuring that it coincides with actual performance may be just as critical
- Accuracy is an important ingredient in our recipe for effective feedback

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- Practical implications: • Primary message: Supervisors need to take the required steps to ensure that feedback is closely tied to actual performance
- This strategy is likely to reap even greater improvements in performance than what could be expected when evaluations of performance are blindly delivered



- Practical implications:
 - Primary message: Supervisors need to take the required steps to ensure that feedback is closely tied to actual performance
 - This strategy is likely to reap even greater improvements in performance than what could be expected when evaluations of performance that are blindly delivered

