Temporal effects of diversity faultlines and social categories in training groups

Marinus van Driel, Van Driel Consulting, Inc.
Bertolt Meyer, University of Zürich
Daniel P. McDonald, DEOMI
Diversity

• Is diversity good or bad for organizations?

  – “Diversity refers to differences between individuals on any attribute that may lead to the perception that another person is different from self” (van Knippenberg, De Dreu, & Homan, 2004, p. 1011).

  – Diversity becomes more important as more organisations employ more heterogeneous individuals, e.g.:
    • Demographic change (age)
    • International mobility (ethnicity)
    • Gender equality
A test case for the impact of diversity

• **Background**
  – DEOMI’s flagship course entails weeks spent in highly diverse small groups exploring diversity and discrimination.
  – This experience is taxing both affectively and cognitively
  – The groups are geared toward achieving behavioral change in students.

• **Research Question**
  – We were interested in finding out whether diversity within training groups as well as perceived similarities between trainers and group members affected students’ behavioral change
Faultlines over time: Can stronger faultlines lead to more positive outcomes over time than weaker ones?

- Diversity faultlines could lead to problematic effects at the beginning, but could foster team learning over time (e.g., Brodbek & Greitemeyer, 2000)

- Test of this assumption in 84 diverse military training groups ($N = 1133$, 13.1 trainees per group) where learning was measured over time

- Sample was diverse with regard to race (32 Asian, 578 Black, 114 Hispanic, 13 Native American, 345 White), gender (721 male, 368 female), and other attributes

- Focal area of training: Behavioral change associated with challenging interactions brought about by group diversity – Assessments of students’ behaviors associated with course objectives: Ratings (0-100) at three equally spaced time points by three raters (the two trainers and one outside assessor) on five scales

- Faultline strength $F_{au}$ (Thatcher, Jehn, & Zanutto, 2003) computed over available social categories
A three-level growth model of the impact of faultlines on training performance over time

Hypothesis: Strong faultlines are associated with a lower intercept and a higher slope in test performance than weak faultlines

ICC(1) of test scores in classes = .09, $p < 0.001$, ICC(2) = 0.79: Multilevel modeling warranted
The proposed effect

Analysis

– Random Coefficient Growth Modeling in R (Bliese, 2009) shows that...

• Students’ similarity to trainers only impacted students’ learning initially

• Faultines (i.e., group diversity) has a positive impact on student learning over time
Implications

• Salient team diversity (faultlines) can have negative short-term effects but positive long-term effects

• Diverse teams may require time to attain their optimal level of functioning.