## WHO DO THEY THINK THEY ARE? INVESTIGATING THE IMPACT OF COVID-19 ON CASUAL TEACHING STAFF

Prarthana Devia, Manjula Devi Sharmab, Stephen George-Williamsa

Presenting Author: Dr Prarthana Devi (prarthana.devi@sydney.edu.au) <sup>a</sup>School of Chemistry, The University of Sydney, Sydney NSW 2006, Australia <sup>b</sup>School of Physics, The University of Sydney, Sydney NSW 2006, Australia

**KEYWORDS:** casual academics, perception, teaching and learning environment

Casual academics teaching staff, such as tutors and laboratory demonstrators, play a vital role in our undergraduate teaching programs. Indeed, this casual academic workforce often forms the vast majority of the academic teaching staff at most universities, especially in the first-year units/courses. In particular, casual laboratory teaching staff possess several responsibilities such as, ensuring adherence to the health and safety policies, assessing student performance and output, developing undergraduate students' practical and transferable skills, mentoring and correcting misconceptions in theoretical understanding (Herrington & Nakhleh, 2003; Rodriques & Bond-Robinson, 2006). Literature suggests that there is a strong positive correlation between how students interact with their laboratory demonstrator and how these same students rank their interest in (and attitudes towards) their undergraduate science courses (Pentecost et al., 2012; Osbourne, Simon & Collins, 2003). What is unclear however; how do these casual academics perceive their own teaching roles and how does this influence both their own teaching practices and the learning environment experienced by the students? A recent study undertaken by Flaherty et al. (2017) showed the positive impact of psychological empowerment on both the self-efficacy of the teaching staff and its ability to create a more positive, student-centered teaching environment. Preliminary quantitative and qualitative data collected through questionnaires of laboratory teaching staff at Monash University and the University of Sydney have been collected investigating the perceptions of our casual teaching staff (George-Williams, 2019; Spreitzer, 1995; George-Williams, 2020), particularly towards their own teaching roles. The results of these studies will be discussed alongside potential future directions for this study.

## REFERENCES

Flaherty, A., O'Dwyer, A., Mannix-McNamara, P. & Leahy, J. (2017). The influence of psychological empowerment on the enhancement of chemistry laboratory demonstrators' perceived teaching self-image and behaviours as graduate teaching assistants. *Journal of Chemistry Education Research and Practice, 18*, 710-736.

George-Williams, S. R. (2019) Unpublished results, Monash University.

George-Williams, S. R. (2020) Unpublished results, The University of Sydney.

Herrington D. G. & Nakhleh M. B. (2003). What Defines Effective Chemistry Laboratory Instruction? Teaching Assistant and Student Perspectives. *Journal of Chemical Education*, *80*(10), 1197-1205.

Osborne, J., Simon, S., & Collins, S. (2003). Attitudes toward science: A review of the literature and its implications. International Journal of Science Education, 25(9), 1049-1079.

Pentecost, T. C., Langdon, L. S., Asirvatham, M., Robus, H., & Parson, R. (2012). Graduate teaching assistant training that fosters student-centered instruction and professional development. *Journal of College Science Teaching*, 41(6), 68–75.

Rodriques R. A. B. & Bond-Robinson J. (2006). Comparing Faculty and Student Perspectives of Graduate Teaching Assistants' Teaching. *Journal of Chemical Education*, 83(2), 305-312.

Spreitzer, G. M. (1995). Psychological Empowerment in the Workplace: Dimensions, Measurement, and Validation. *The Academy of Management Journal, 38*(5), 1442-1465.

Proceedings of the Australian Conference on Science and Mathematics Education, 30 September - 2 October 2020, page 20, ISBN Number 978-0-9871834-9-1.