

AIP PHYSICS EDUCATION GROUP (PEG) DISCIPLINE DAY

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KEYWORDS: Online Teaching, Blended Teaching, Physics Education, Teaching Practices, Students as Partners

This year our discipline day will focus on online teaching and learning. We will have two presentations, followed by an open discussion with participants, and one short workshop.

Jasmina Lazendic-Galloway will talk about how designing and running a massive open online course (MOOC) can be used to move into blended and online teaching practices and engage learners to become partners. Points of discussion: what impediments instructors encounter and what reservations they might have to engage with online teaching.

Elizabeth Angstmann will talk about the Graduate certificate in physics for science teachers at UNSW, an online degree she introduced last year. With this degree the lecture material is all online, including short videos with questions. It is set up to be very interactive with predict-observe-explain activities throughout. The assessments consist of reports on experiments conducted at participants' schools, online quizzes and then a final exam which they can sit at UNSW or at their school under invigilation. Points of discussion: how other institutes calculate workloads for online teaching and what steps people take to avoid contract cheating in the online environment.

In the last part of the session, Petr Lebedev will run a crash-course in effective video making.

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