Pedagogical research and development from Dawson College that can have an impact in your classroom

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I will begin by reviewing the research and development work our research team is engaged in, including:

• Design Based Implementation Research (DBIR) work on classroom design,
• Qualitative case studies to reveal active learning classroom instructor patterns of orchestration,
• Development of a tool for improving group activity work called GRASP (Group Response and Ambient Student Participation system).

The second half of my talk will focus on the Asynchronous Peer Instruction platform called DALITE (Distributed Active Learning Integrated Technology Environment) that we have developed within a Design Based Implementation Research process. DALITE is a novel LTI compliant application which allows Learning Management Systems to include an asynchronous peer instruction component as a part of their course. In addition to being used in several cepep-based physics courses, it has been successfully used in three different MOOCs on the edX platform (Harvardx,MITx,McGillx). This tool not only enables a novel type of formative assessment based on student self-explanations, but also provides a rich source of peer-assessed natural language data for educational research.