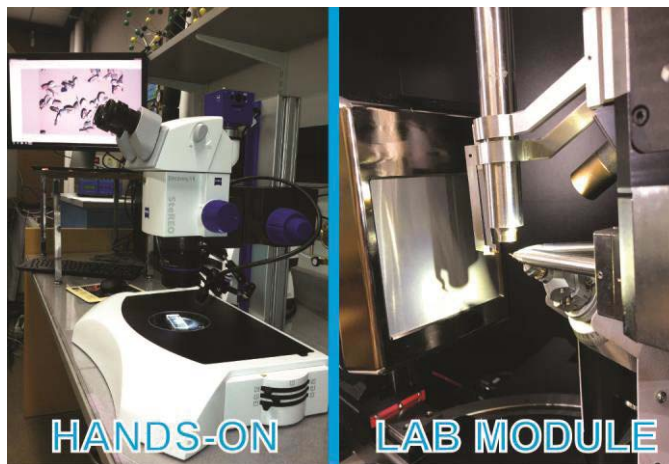


**Title:** *Illustrating Key Concepts: Introducing Small Molecule Crystallography to Chemistry Undergraduates*

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A major part of our educational mission as chemical crystallographers is to make small molecule crystallography an accessible technique for chemistry students of all levels through different learning paths.<sup>[1-3]</sup> We have developed a three-hour crystallography laboratory module for implementation in undergraduate experimental chemistry courses, including inorganic and physical chemistry, as well as for outreach programs such as inter- institutional visits. The approach of *illustrating key concepts* allows students to draw an immediate connection between the crystallography theory and their own hands-on experience, leading to a deeper understanding of crystallography content, which not only makes their brief laboratory visit a memorable experience, but also increases students' ability to use crystallography as a tool in their own future research.<sup>[4]</sup>

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