**Building the Next Generation Digital Learning Environment with APIs and Open Standards**

Lower technology barriers and newer technology approaches are beginning to make it easier to assemble different teaching and learning tools together to use them in new and better ways.

**API Concepts**

Google these terms/phrases to learn more about how APIs can benefit your institution:

* API of One’s Own
* BYU Personal API
* University APIs
* Flipped LMS SFU
* @UniversityAPI
* Flipped Campus API

Some of these projects offer new perspectives and approaches to persistent challenges relating to technology integration. Others offer new ways of thinking about – and enabling –students to become in more control of their learning data and learning experiences. Check them out!

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**Standards Concepts and Terms**

Google these terms to learn more about how standards can help in these various areas:

* **IMS LTI** (connecting content and learning tools to LMSs)
* **Experience API (aka xAPI, Tin Can API) and IMS Caliper** (analytics and other learning activity/interaction metadata)
* **Open Learning XML (OLX) and IMS Common Cartridge** (content and content structure for web-based delivery of learning content)
* **IDPF EPUB3, EDUPUB** (content, usually as delivered via a tablet or e-book device, and extended to include education-specific features like quizzing)
* **IMS LIS** (Student Information System integration)
* **IMS QTI and APIP** (relating to test questions and assessments)
* **RSS** (generic feeds/streams of content and links, for example from blogs)
* **A4L SIF and CEDS** (data models that support K-12, post-secondary, and workplace learning scenarios)
* **LRMI/Schema.org** (common metadata format for describing learning resources)
* **LEAP2A** (e-portfolios)

Prepared by:
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EDUCAUSE ELI Conference 2016
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