



**ABET Symposium 2010  
Presentation Abstract**

**Instructional Decision Support Systems: A New Approach for Combining Curriculum Design, Faculty Support, and Assessment**

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This session describes a first generation Instructional Decision Support System (IDSS) designed to facilitate personalized student learning by providing faculty instructors with up-to-date student data relevant to performance and learning outcomes while simultaneously archiving assessment evidence and supporting continuous academic program improvement. An IDSS integrates information from a variety of sources, such as student characteristics (learning styles, personality inventories, etc.), assessment of performance criteria on a per student basis, instructor characteristics (teaching styles, goals, etc.), students' schedules, and expected developmental level to provide each instructor with incoming student profiles, suggested learning and teaching strategies, and historical data on previous approaches and results. The current system, Academic, Evaluation, Feedback, and Intervention System (AEFIS), also provides for coherent curriculum development and integration through user-friendly mapping of learning outcomes and performance criteria with educational experiences. Using a dynamic knowledge management approach focused upon evidence-based, student-centered learning provides a systematic solution for faculty instructional support, continuous assessment/program improvement, and accreditation.