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Dr. Andy Gibbons is currently a faculty member and chair of Instructional Psychology and Technology at Brigham Young University. Prior to that, he was a faculty member at Utah State University in Instructional Technology. For 18 years he led instructional design projects in industry at Courseware Inc. (now Courseware Anderson Consulting) and at Wicat Systems, Inc., including work on large-scale training development, design of simulations, and innovative forms of computer-based instruction. Dr. Gibbons' current research focuses on the architecture of instructional designs. He has published a design theory of Model-Centered Instruction, proposed a general Layering Theory of instructional designs, and is currently studying the use of design languages in relation to design layers as a means of creating instructional systems that are adaptive, generative, and scalable.