

Address: **“Life Cycle Management: Evolving Challenges and Emerging Solutions”**

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Program Date: March 26, 2015

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Abstract:

Shrinking innovation cycles and rising complexity raise challenges throughout the life cycles of the products and systems that teams manage. A spectrum of remarkably predictable problems has repeatedly surfaced across diverse industries, as enterprises, their products and services, their customers and suppliers, and the global economy have wrestled with more complex and rapidly-changing systems.

It has been said that “All Innovation Is Innovation of Systems”. The powerful paradigm behind this view brings a family of new solution methods and tools, increasingly supported by scientific foundations. Implications of these solutions are far-reaching, as they impact technical teams, product and market strategists, production and support processes, leadership at all levels, and the integrated infrastructure of information, processes, and tools.

Product Lifecycle Management (PLM) methods and systems play critical, high-value roles in this emerging integrated framework, which is itself a system, with its own life cycle. The same underlying methods that improve management of products and services can be used to organize the framework of in which PLM systems are implemented, integrated, and evolved.

This talk will include examples, including a project currently underway with IPLI.

Biographical Sketch: William D. (Bill) Schindel is co-lead of two global industry teams: (1) the System Patterns Challenge Team, part of the Model-Based Systems Engineering (MBSE) Initiative of the International Council on Systems Engineering (INCOSE), and (2) the INCOSE Agile Systems Engineering Life Cycle Model Project. His forty-year engineering career has included aerospace engineering with IBM Federal Systems, teaching engineering and mathematics at Rose-Hulman Institute of Technology, founding and leading a supplier of telecom carrier network control systems for the public network, and leading ICTT System Sciences, a systems engineering enterprise that has pioneered Pattern-Based Systems Engineering methods for transforming the productivity of the innovation process in medicine and health care, advanced manufacturing, aerospace, automotive, and consumer products.