## **Cybernetics and Systems Design** Timeline

This is a draft of a timeline describing major events in the development of cybernetics, operations research, systems analysis, systems engineering, and systems design. It is still incomplete.

Antecedents:

Maxwell publishes

For Scientific Method:

- Robert Grosseteste

- Francis Bacon

- Henri Poincare

On Governors

- Ochham

1868



1943

1968

Related developments: - Account Planning (in Advertising) - Decision Support - Scenario Planning - Quality Management (TQM) 1972 Hoos publishes Systems Analysis in the Public Policy: A Critique - Participatory Design - Applied Ethnography - Usability Research Rittel publishes On the Planning Crisis: Systems Analysis of the First and Second Generations Conversation, Cognition, and Learning 1980 1990 2000 1980 Design Research Society Conference Portsmouth Argyris & Schön publish Theory in Practice: Increasing Professional Effectiveness symposium on Design Theory at Columbia University Simon publishes The Structure of Ill-Structured Problems

Notes on the Synthesis of Form

1977 Kuhn publishes The Essential Tension: Selected Studies in Scientific Tradition

1977 Sanoff publishes Methods of Architectural Programming

1977 Peña publishes Problem Seeking: An Architectural Programming Primer