

# SCIENCE SIFTING

TOOLS FOR INNOVATION IN SCIENCE AND TECHNOLOGY

**RODNEY R DIETERT**

Cornell University, USA

**JANICE DIETERT**

Performance Plus Consulting, USA

 **World Scientific**

NEW JERSEY • LONDON • SINGAPORE • BEIJING • SHANGHAI • HONG KONG • TAIPEI • CHENNAI

---

---

## *Contents*

---

---

<i>List of Figures</i>	vii
<i>List of Exercises</i>	ix
<i>Foreword — A Personal Meditation on Creativity</i>	xi
<i>Acknowledgments</i>	xv
Introduction and Orientation to Science Sifting	1
Chapter 1 Duality and the Creative Scientist	10
Chapter 2 Moments of Scientific and Technological Discovery	19
Chapter 3 Preparing for a Fulfilling Research Career	28
Chapter 4 Informational Patterns	43
Chapter 5 Focus on Creativity and Innovation	52
Chapter 6 Mind Your Language	64
Chapter 7 Perceiving Your Reality	74
Chapter 8 Body of Work: Managing Your Greatest Tool	88
Chapter 9 Creative Spaces	99
Chapter 10 Vantage Points and Gaining Multiple Perspectives	116
Chapter 11 Mapping Information Terrains	123
Chapter 12 Pattern Jumping and Lateral Thinking	144
Chapter 13 Synchronicity	157
Chapter 14 Sandman Science: Science Sifting During Sleep	165
Chapter 15 Meditation: Ohming Up or Getting Down with the Real You?	179

Chapter 16	The Neutral Observer: Letting Go of Drama, Ego, and Attachments	194
Chapter 17	Play Like You Mean It	203
Chapter 18	Striking a Chord of Creativity: The Art of Science	214
Chapter 19	Summing it Up	233
References		237
<i>Index</i>		267