

Contents

SEEING

I. Diversity

More diversity in our science, our patterns of living and our education would enrich us all. 3

II. The Two Faces of Perception

A model of man's decision-networks helps us to understand our subjective-objective oneness with the world. 25

III. The Limits of Reductionism

In the world's hierarchical complexity, higher levels depend on lower ones but develop new properties of their own. 74

IV. Beauty: Pattern and Change

We continually search for patterns, but patterns that contain the unexpected. 82

SHAPING

v. Communication and Collective Choice

In a high-interaction society, all of us must have a say in decisions that affect our destiny. 111

VI. Shaping the Evolutionary Future

"There will be more human evolution in the next 50 years than in the last 100,000."—Joshua Lederberg 119

VII. What We Must Do

A large-scale mobilization of scientists may be the only way to solve our crisis problems of the next few years. 160