# ENVIRONMENT:



## Science, Policy and Value

Or, why it is still fun and profitable to destroy our life-support system

Randall Baker



#### Environment: Science, Policy and Values



### ENVIRONMENT: Science, Policy and Values

Why we seem to make stupid, irrational and profitable decisions about our life-support system:

A personal view

### **Randall Baker**





All rights reserved. No reproduction, copy or transmission of this publication may be made without written permission.

Published by

**PARADIGMA** 

e-mail: paradigma\_books@abv.bg

**ENVIRONMENT: SCIENCE, POLICY AND VALUES** 

© Randall Baker, MMX

© Paradigma, MMX

ISBN 978-954-326-126-0

#### **Contents**

1	Scope of the Book	)
2	Some Basic Thoughts	5
Part	one	
The	rules of the Game:1	9
3	Fundamentals about the Natural Environment 2	0
4	The Biosphere: Love It or Leave It2	4
Polic 5	What is Policy?	
5	What is Policy?	4
68-11	three and the family	
	Lilice	
Valu	es4	
6	What is Economics?	
7	How do we value Nature?	15
8	Some basic problems about being human	50

P	art	four	
P	olic	cy issues	6
1.	Po	pulation	62
	9	What is a "population?"	6
	10	Human population composition and trends	6
	11	Boom and Bust?	6
	12	An aging population	7
	13	What has this to do with the environment?	
2.	Fo	od	7
	14	What is food?	8
	15	How did we get to this state of affairs?	9
3.	End	ergy	9
	16	Energy is Everything	9
	17	Early Days	9
	18	When everything changed—the Energy Revolutio	n 9
	19	Characteristics of energy after the Revolution	
	20	How would we know if we had an energy crisis?	
	21	The future.	.10
	22	Risk, Policy and Psychology.	10
3.	Pol	lution	10

23 What is pollution, and why worry now?.....110

	24	I can't breathe. Air Pollution.	113
	25	So, what are you going to do about it?	118
	26	Don't drink the water.	120
	27	Trashing the Environment	125
5.		eryone's and no-one's:	
	Co	mmon Property problems	134
	28	Individual Rationality adds up to Collective Madness	135
6.		econd Generation" problems:	140
		mate change	
	29	What are "second-generation" problems?	141
	30	So, what's the problem about climate change?	145
	31	What's to be done about climate change?	153
7.	SU!	stainability	156
	32	Oh Dear. How to avoid shattering earnest good intentions	157
Po	ırt	five	
W	hat	t to do?	161
	33	Right, so what are we supposed to do now?	161

j-40643

### Science, Policy and Value

Randall Baker started his studies in the UK in the 1960s by combining a degree in the Natural Sciences with Economics

and Geography. He has continued in an interdisciplinary context in teaching and research ever since. His original focus was on land degradation in the tropics, especially on the process of *desertification* in East Africa. He went on, in the 1970s, to be Dean of the School of Development Studies at the University of East Anglia in the UK, and from there he took a chair in the School of Public and Environmental Affairs at Indiana University. He has worked on energy and environment issues in many countries and is the author of several books in this field. He recently wrote a policy roadmap for the Asian Development Bank to guide alternative energy development in Azerbaijan. Since 1991 he has been involved with developing the policy and administration fields at the New Bulgarian University in Sofia, where he is now full-time as a

Distinguished Professor. His website is www.randallbaker.org

The environment is something that cares little, or nothing, for the divisions among "specialized" fields of knowledge, for the human time-scale, and it certainly does not go along with Man's ridiculous concept of "Conquest of Nature," or "Dominion over the Earth." In a rational world we would try to understand the laws of science – the rules of the environment game, and base our policies to fit these realities. We would then establish a set of values (economics) that recognized and nurtured the integrity of Nature: our life-support system. But, the reality is that we divide up the unity of Nature into boxes for "experts" to pick-over, while the "big picture" becomes hopelessly lost. Politics is too busy serving the constituent's latest crisis and looking for votes in 2 to 4 years to foster a climate in which "sustainability" can ever grow and thrive. Increasingly, problems are global, and can 200 independent states ever form a collective management approach to environmental harmony? Copenhagen showed what a barrier that is. And then there is the question of

"ADA" Kitab Merkezi \*
Science,Policy and Value
Oivmet:18.00 manat

9 789543 261260

build a world in which science, policy are essentially the same, and based ing life-support system, then we gourselves. Nature, remember, fooled, and has endless time o prove that. We need to h the big picture.

"Müəlliflik hüququ və əlaqəli hüquqlar haqqında" Azərbaycan Respublikası Qanununa və nəşr ilinə, ölkə üçün mühüm əhəmiyyət kəsb etdiyinə görə bu elektron resursdan yalnız kitabxananın "Lokal şəbəkədən istifadə üzrə oxu zalı"nda istifadə etmək olar.

\* \* \*

Due to Law of Azerbaijan Republic on "Copyright and related laws", year of publication and for this reason that this material is important for our republic you can use this electron resource only in the "Local network reading hall".

\* \* \*

Принимая во внимание закон Азербайджанской Республики "Об авторском праве и сопутствующим правам", год издания, и чрезвычайную важность для страны, получить доступ к данному электронному ресурсу можно только в библиотечном "Читальном зале по использованию локальной сети".