

# CONTENTS

INTRODUCTION: Marking the Tide 3

## **Part 1 Hobbies of Discovery 13**

- 1 METEOROLOGY: NOAA and the Flood 15
- 2 ORNITHOLOGY: *Bird* Is a Verb 33
- 3 ENTOMOLOGY: Of Monarchs and Men 51
- 4 ASTRONOMY: The Pull of the Planets 79

## **Part 2 The Necessity of Leisure 107**

- 5 BIOCHEMISTRY: Protein Folding Is Magic 109
- 6 MICROBIOLOGY: Invisible Worlds Go Public 131
- 7 CONSERVATION BIOLOGY: Taking Stock 155

## **Part 3 A World Where Everybody Counts 179**

- 8 MARINE BIOLOGY: Turtles and Nurdles 181
- 9 GEOGRAPHY: White Picket Fencelines 205
- 10 PUBLIC HEALTH: Patients, No Patience 233

CONCLUSION: Setting Sail 261

INTERVIEWS/SOURCES 273

CALL TO ACTION 277

ACKNOWLEDGMENTS 279

INDEX 283