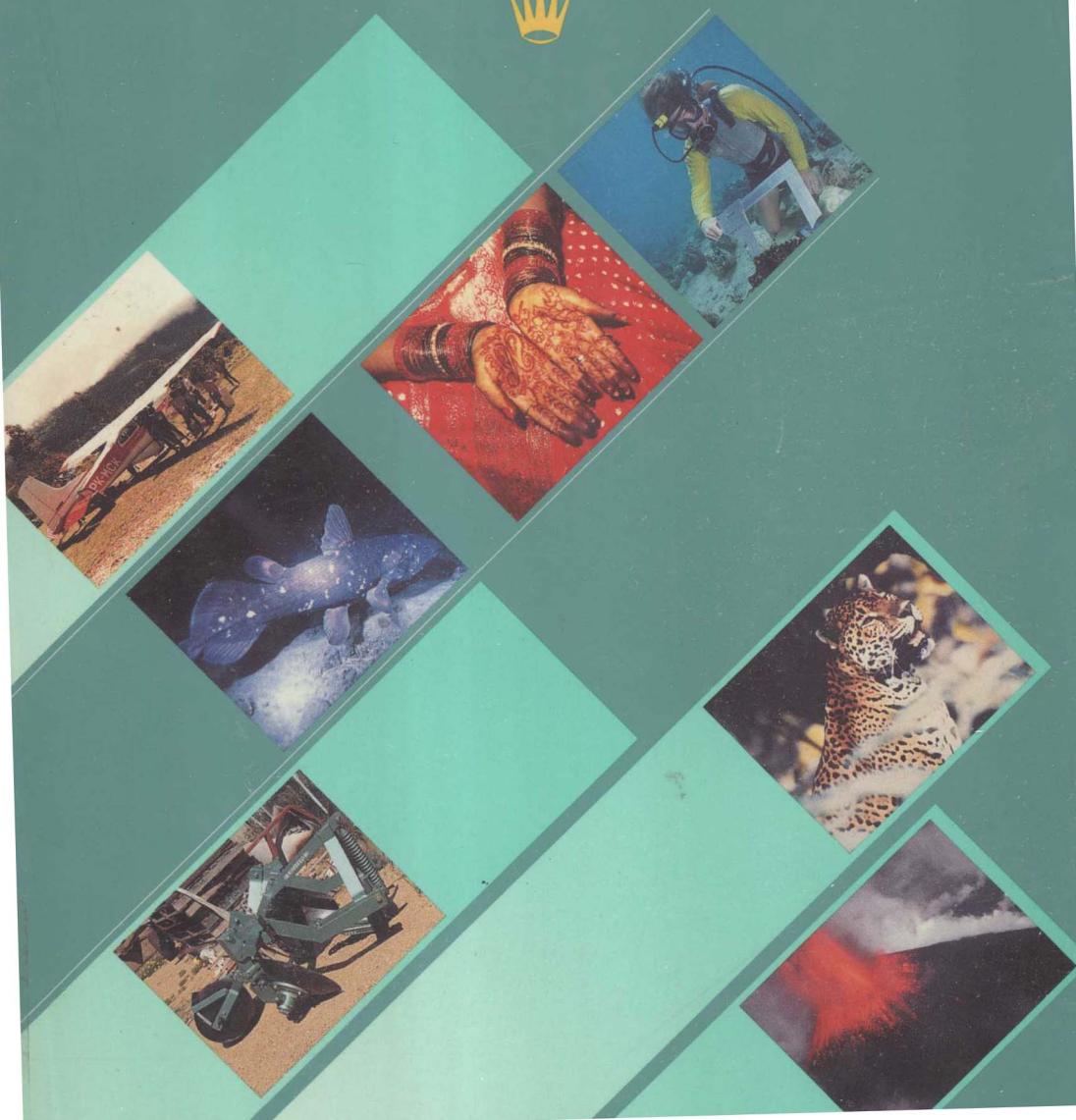


SPIRIT OF ENTERPRISE

THE 1990 ROLEX AWARDS



Spirit of Enterprise

The 1990 Rolex Awards

Foreword by

Jean Dorst

*Director, Laboratory of Zoology, French National Museum of Natural History
Member of the Institut de France*



Preface by

André J. Heiniger

Chief Executive Officer and Managing Director, Montres Rolex S. A.

Edited by

David W. Reed

Photographs and artworks have been submitted by the entrants except where indicated in the captions

This book was produced in Switzerland for Rolex
by Buri International
Production co-ordinator: Rolf Montag

Typeset by Elgra Ltd. Bern/Zurich
Printed by Buri Druck AG
Bound by Buchbinderei Schumacher AG, Schmitten

First published in 1990 by
Buri International
Eigerstrasse 71
Bern
Switzerland

Copyright © 1990 by Montres Rolex S. A.

All rights reserved. No part of this work covered by the copyright hereon may be reproduced or used in any form or by any means – graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage or retrieval systems – without the written permission of the publishers

ISBN 3 7169 2103 3

The Rolex Awards for Enterprise 1987 Members of the Selection Committee

André J. HEINIGER, Chairman SWITZERLAND
Chief Executive Officer and Managing Director, Montres Rolex S. A. Geneva

Teodosio César BREA ARGENTINA
Lawyer and Member of the Board of Trustees, Worldwide Fund for Nature (WWF)

Jean DORST FRANCE
Director of the Laboratory of Zoology, French National Museum of Natural
History and Member of the Institut de France

Joe B. MACINNIS CANADA
Specialist in Arctic diving and President of Undersea Research Ltd., Toronto

Krov Nicholas MENUHIN AUSTRALIA
Freelance film producer, director, cameraman and writer

Saburo OKITA JAPAN
Chairman of the Institute for Domestic and International Policy Studies, Tokyo

Sir John RAWLINS UNITED KINGDOM
One-time Surgeon Vice-Admiral of the Royal Navy and Chairman of Deep Ocean
Technology Inc., San Leandro, California

SOEDJATMOKO INDONESIA
Social Scientist and Former Rector of the United Nations University, Tokyo

Juan Antonio VALLEJO-NÁGERA SPAIN
Professor of Psychiatry and Psychopathology at the University of Madrid

Don WALSH USA
Specialist in underwater vessels and President of International Maritime Incorporated, San Pedro, California

Foreword

Our present era is an exciting one, though fraught with innumerable difficulties for the men and women who are living through it. Does it not bring into question principles we thought were untouchable? There is no doubt that it will take its place amongst the great turning-points in the history of humanity, one of those moments when the course of events accelerates like a river which, after wending calmly on its way, suddenly thunders over the rapids. Certainly, this is a consequence of the progress of our technology. Computers are opening up prospects that were unknown until now, giving external scope to our brains in the same way machines did to our muscles in the 18th century. Advances in our knowledge of the biology of the molecule, the cell and the vast ecological systems which form our biosphere – that slender envelope of living matter which surrounds the core of our planet – permit us to master living matter in ways that were previously unknown. These are factors which have profoundly changed our behaviour and have led us to a crisis point in our civilization.

It might be feared that humanity is increasingly placing its trust in machines and science and that, in the end, we could become no more than robots. And that would put an end to the individual initiative, the spirit of enterprise which Montres Rolex S. A. is so aptly encouraging.

However, a glance through the pages of this book will show that such is not the case. The urge to seek, to find out and to understand – in a perfectly disinterested and often totally individual way – what was previously unknown is just as alive amongst our contemporaries as it was for those who lived in earlier centuries when life was less dictated by technology. In our universe dominated by the computer and the biologist's test-tube, the yearning to know and innovate is just as vital as it was when our distant ancestors drew bison and horses on the walls of their caves in the Dordogne and Spain.

Creativity and the spirit of enterprise will continue to be essential and exclusive qualities of humankind and ones which will for ever distinguish us from the living world around us dominated as it is by instinct or a very rudimentary apprenticeship. Yet this does not exclude research on our own past – a past from which we draw our future.

The projects that the Selection Committee for The Rolex Awards for Enterprise 1990 had the difficult task of deciding on offer striking proof of this unending process. The range of subjects is vast and extends across all spheres of knowledge and research. Yet all have a common denominator: the progress of humankind. Many of the candidates have as their objective to improve the lives of their fellow men, many of whom are still in great need. Others aim to extend our knowledge of the mysterious world around us and the vastness of space which we have, as yet, scarcely penetrated. Many are devoted to the environment, in the widest

sense of the word – one of the most pressing problems of our time. All of them should receive closer consideration on the part of our political leaders than do short-term subjects of dissension.

These are subjects which are of vital concern to our candidates because the world of nature around us is seriously threatened. The survival of humanity depends on its preservation. Materially we are dependent on it. Yet, in general, we equally need the moral qualities necessary to live in harmony with those beings that have their place on the same genealogical tree as our species – derived as it was from an obscure branch of the primitive primates. For the candidates of The Rolex Awards, the human element is a matter of constant concern – and this has profoundly heartened me.

Of the important lessons I have learnt from my participation in this Jury, the first and foremost is that the spirit of enterprise is still marvellously alive amongst the young, and even the less young – which is extremely encouraging in our century encumbered with technology where the machine should be in the service of man, and not dominate him.

Without this spirit of enterprise, we would have remained what we were in the age of the cave-man. To quote the words of the great French biologist, Jean Rostand: Man, this "grandchild of the fish, great-nephew of the snail... From a line of animals that in no way seemed intended for such a destiny, there came one day that preposterous animal which was to invent integral calculus and dream of justice".

Here we have the great concept that acts as a permanent driving force for humanity. Moreover, the fact that it is an ongoing tradition has once again been proven by the candidates who have participated in this international competition organized by a major company pursuing the course of universal humanism. For me this has been a great source of joy.

Paris,
November 1989

Jean DORST
Institut de France

Preface

With this, the fifth round of The Rolex Awards for Enterprise, I feel there is scarcely any need to introduce you to this incredible world of endeavour and achievement that we at Montres Rolex S. A. have the privilege and pleasure to explore anew every three years. Nevertheless, for those of you who are encountering The Rolex Awards for the first time, a word of presentation will certainly not go amiss.

It all started in 1976, on the occasion of the 50th anniversary of a "first" that occupies a very special place in our traditions – the invention and patenting in 1926 of the Rolex Oyster Case which was immediately acclaimed as the world's first waterproof watch. This was a particularly important moment for us since the Rolex Oyster has been an eminent example of our own enterprise in the field of fine watchmaking, and its 50th anniversary seemed to us an appropriate occasion to share and celebrate what we have long called "The Spirit of Enterprise".

The Rolex Awards were therefore inaugurated in 1976 and granted for the first time in 1978. The response was immense, worldwide and exciting; it far exceeded our wildest imagination but revealed that our initiative had struck a response amongst the public at large and that our concept of the "spirit of enterprise" is one that is shared by a vast number of people of unusual talents and capabilities. The first Awards Ceremony held in Geneva, Switzerland, in 1978 consecrated five Rolex Laureates, and subsequently 26 Honourable Mentions were suitably celebrated at ceremonies in their countries of residence throughout the world.

In view of the remarkable response to our first call, we decided to maintain the Awards which – now having been organized sequentially in 1981, 1984 and 1987 – have become a tradition. Over this period, 20 enterprising individuals have become Rolex Laureates and over 100 have been granted an Honourable Mention.

The fifth and latest round of The Awards, which is the subject of the present book, has had nothing to envy of its predecessors. The level, variety and quality of the projects submitted by our candidates have filled us with pleasure but at the same time have rendered the task of the eminent Members of our Selection Committee even more difficult than on previous occasions.

Right from the start in 1976, we realized that the granting of five Laureates and thirty or so Honourable Mentions could not do justice to the quantity and quality of our candidates. We therefore undertook to present to the world at large a wider panorama of this wealth of enterprise by publishing a book describing and illustrating a number of the projects that had most vividly captured our imagination – both for the pleasure of the reader and to ensure that these candidates could demonstrate their ideas to the largest possible audience and, perhaps, gather the wider support they need to bring their projects to realization.

Our expectations have not been unfounded and the response given to the four previous editions of *Spirit of Enterprise* has been generous and effective, with many of the candidates whose projects have been published informing us of the opportunities that have presented themselves.

I feel convinced that this fifth edition of *Spirit of Enterprise* will have a similar impact. The projects that you will read about on the following pages demonstrate the panorama of achievement and the profound sensation of human generosity that are for us so typical of our candidates. They will take you into new and amazing realms of human endeavour and will, I am sure, leave you with a renewed admiration at human aspirations.

In Geneva, on 26 April 1990, I will be proud to welcome to the podium the five Laureates of The Rolex Awards for Enterprise 1990 and present each of them with a cheque for 50,000 Swiss francs and a specially engraved gold Rolex Oyster Day-Date Chronometer. In the days that follow, a total of 35 Honourable Mentions will similarly attend special ceremonies organized around the world at which their successes will be acknowledged by the presentation to each of them of a steel and gold Rolex Oyster. Finally, we are once again publishing this book and other documents to ensure that, in 1990 too, the spirit of enterprise has the largest possible hearing around the world.

The Rolex Awards for Enterprise 1990 have, in the same way as their predecessors, given myself and all those involved in them considerable pleasure and gratification. They have also strengthened us at Montres Rolex S. A. in our estimation of the intrinsic value of the Awards that we have conceived and of our vision of the programme's future. We hope that your appreciation will match ours. So please allow me to take this opportunity of announcing that the next Rolex Awards for Enterprise will be launched in 1991 and of inviting you to join us in them.

Geneva,
November 1989

André J. Heiniger
Chief Executive Officer and Managing Director
Montres Rolex S. A.

Introduction

What is it that drives men and women to go where nobody has ever gone before, to adopt a cause and tenaciously persevere until the grievance has been righted, to give generously of themselves to help those less privileged than they, to undertake a crusade to protect the animals and plants of our environment? There is, of course, no single answer to such a question but there is a universal thread which links them together and which results in many of the most outstanding of their kind figuring in this volume. That thread is the "spirit of enterprise" – a quality that has been a fundamental force helping humankind to ever-greater achievements over the centuries and a quality that Montres Rolex S. A. has decided to honour and encourage in five consecutive rounds of The Rolex Awards for Enterprise.

The 267 people who will be recounting to you their hopes and ambitions from the pages of this book are uncommon but incredibly stimulating. They come from all the corners of the globe, and they represent an amazing range of disciplines. Yet they have all been chosen for their spirit of enterprise. Five of them were selected by a distinguished Selection Committee to become The Rolex Laureates for 1990 and a further 35 were designated Honourable Mentions. Yet they all have an exciting story to tell and this book has been created to ensure that the stories are broadcast as widely as possible.

On 26 April 1990, the five Laureates will come to Geneva to take part in the Awards Ceremony and each receive from the hands of Mr. André J. Heiniger, Chief Executive Officer and Managing Director of Montres Rolex S. A., a cheque for 50,000 Swiss francs, a specially inscribed gold Rolex Oyster Day-Date Chronometer and a scroll attesting their selection. This will be followed shortly afterwards by similar ceremonies throughout the world at which the 35 Honourable Mentions will be celebrated and each receive a steel and gold Rolex Oyster and a scroll.

However, as in previous years, Montres Rolex S. A. has agreed to extend further support and encouragement to many of the other candidates whose projects were of outstanding merit. It was therefore once again decided to publish a book containing descriptions of the award – winning projects and of a further 236 projects that were considered to merit a wide audience.

Since the project descriptions that the candidates submitted on the Official Application Forms for The Rolex Awards for Enterprise were of widely varying lengths, it has proved necessary to condense many into a more concise form. This has had the added advantage of allowing even more projects to be presented than in the four previous Rolex Awards books.

As before, the book itself is divided into three sections, each being devoted to one of the categories of The Awards: Applied Sciences and Invention; Explora-

tion and Discovery; and The Environment. However, the individual projects are presented in a random order and the sequence is in no manner intended to indicate a rating on the part of Montres Rolex S. A. or the Editor.

This book has a dual purpose. It provides a vehicle for the world to appreciate the qualities of many of those who have participated in The Rolex Awards for Enterprise 1990 – their inventiveness, tenacity, courage and perseverance. But it also offers you, the reader, the opportunity of participating in the efforts that are being undertaken. We would therefore encourage you to reach out to these individuals and offer them your encouragement. Better still, write to the candidate whose project has particularly appealed to you and offer your own support in return for further details.

Last but not least, we hope that the endeavours that you read of in the following pages will incite you to give free rein to your own “spirit of enterprise” and encourage you to put your own project down on paper and submit it for The Rolex Awards for Enterprise 1993.

Geneva,
November 1989

David W. Reed
Editor



Rolex Laureates

Section 1 – Applied Sciences and Invention

Laser recovery of the Qin Dynasty treasure trove polychrome 72
John Fredrich Asmus

Section 2 – Exploration and Discovery

The Marco Polo voyage 232
Wayne Anthony Moran

Section 3 – The Environment

The first Indonesian environmental education centre 356
Suryo Wardhoyo Prawiroatmodjo

Setting up Europe's first wildlife teaching hospital 390
Les Stocker

The "Arco Iris" reforestation and environmental educational programme in Northeast Brazil 430
Anita Studer



Contents











indicates a Rolex Laureate



indicates an Honourable Mention



The Selection Committee	vi
Foreword by Jean Dorst	xv
Preface by André J. Heiniger	xvii
Introduction by David W. Reed	xix
Section 1 – Applied Sciences and Invention	1
Solar-wind power system <i>Eduardo A. Sampayo</i>	3
The Trickle Up Programme, Inc. <i>Mildred Robbins Leet</i>	6
Systematic studies on the corrosion casts of the ocular vessels and retinal vascular diseases <i>Zhang Huirong</i>	9
 A new technique of colour cartography – the associative chorographic map <i>Anna M. C. Bednarz</i>	12
Ultra-light aircraft for monitoring Indonesian volcanoes <i>Michel Halbwachs</i>	15
Schistosomiasis control programme on Pemba Island, Zanzibar <i>Lorenzo Savioli</i>	18
New and cheap dental prosthesis to increase cattle production <i>Jorge Raul Spinelli</i>	21
Bone metabolism in black bears: potential applications to human osteoporoses <i>Charles Timothy Floyd</i>	24
 A new tracheostomy cannula <i>Dario de Oliveira Fauza</i>	27
	vii

	A metal-plastic composite for architectural applications	30
	<i>Roger Questel</i>	
	The first Czechoslovak Pamir '88 Himalaya '90 Medical Expedition	33
	<i>Juraj Čiernik</i>	
	Using the Vai language to promote literacy in Liberia	36
	<i>Dorith Minna Ofri-Scheps</i>	
	Strategic significance of a dominant male-sterile gene in wheat breeding	39
	<i>Deng Jingyang</i>	
	Rituals and traditional medicines for "repeater children" in West Africa	42
	<i>Stuart J. Edelstein</i>	
	Standards for conserving early American scientific instruments	45
	<i>David V. St. John</i>	
	Dolphin-assisted therapy of the neurologically disabled	48
	<i>Betsy Smith</i>	
	Anabiosis. Success in a simple experimental model	51
	<i>León Herszage</i>	
	Visceral leishmaniasis on a Colombian Indian reservation	54
	<i>Darvin Scott Smith</i>	
	A video-collar to study aquatic fauna: a view from the animal's back	57
	<i>Greg Marshall</i>	
	Human-powered helicopter	60
	<i>Andrew Zsolnay</i>	
	Transferring the Edward Lowe "Cell System" to entrepreneurial ventures in Latin America	63
	<i>Edward Lowe</i>	
	A belt buckle incorporating basic survival needs	66
	<i>John J. Poluhowich</i>	
	Infusion of joy in the disabled. An effort in the Third World	69
	<i>Mahendra Kumar Goel</i>	
	Laser recovery of the Qin Dynasty treasure trove polychrome	72
	<i>John Fredrich Asmus</i>	
	Transference of NASA robotic technology to prosthetics	76
	<i>Mark Elling Rosheim</i>	
	Mineral accretion technology to preserve Isla de Aves	79
	<i>Carlos Henrique Hernandez Merchan</i>	
	Innovative animal breeding for protein production in arid lands	82
	<i>Reuven Yagil</i>	
	Establishing laser diffraction imaging as a visual art form	85
	<i>Lawrence Martin Weissmann</i>	
	IDQ test kit for detecting fake drugs	88
	<i>Oleka Kelechi Udeala</i>	
	World's first supersonic, propeller-driven piston-engine airplane	91
	<i>William Jeffrey Montagne</i>	

Hyperbaric aquarium <i>Minoru Yamada</i>	94
Robotic system for cementless total hip replacement surgery in dogs <i>Howard Paul</i>	97
 Low-cost coiled metal strip tubular structures for building construction <i>Alejandro L. Stein</i>	100
Universal all crop thresher for developing countries <i>Amir U. Khan</i>	103
A dream telescope for serious amateur astronomers <i>James Delwin Burr</i>	106
Ethanol from sweet sorghum for use as cooking and lighting fuel <i>Anil Kumar Rajvanshi</i>	109
 Hydrogen: a new breathing gas for deep diving <i>Henri-Germain Delauze</i>	112
The robotic laboratory of the future <i>Lane Yago</i>	115
Eye control and the severely disabled <i>Peter Albert Griffiths</i>	118
Deep-ocean camera, video and lighting systems to explore RMS <i>Titanic</i> <i>Ralph Bradshaw White</i>	121
 Fluoride glass optical fibres <i>Marcel Poulain</i>	124
A folding bicycle in a handbag <i>Miguel Angel Martinez Echenique</i>	127
Groupers in love: filming grouper mating aggregations in Honduras <i>John Christopher Fine</i>	130
Dexterous hand-master technology for human hand rehabilitation <i>Beth A. Marcus</i>	133
 <i>Perseus</i> : A vehicle for Antarctic ozone chemistry research <i>John S. Langford</i>	136
Technology for village manufacture of a nutritionally improved cookie <i>Mario R. J. Molina-Aguirre</i>	139
Seismic bricks <i>Oliver Matheson Bulley</i>	142
Insect larvae for animal feed and organic waste treatment <i>Gerardo Lardé</i>	145
 A proportional chromatic piano keyboard and musical notation <i>Henri Carcelle</i>	148
Short descriptions of projects submitted by: <i>Prem Chandra Bhardwaj, Gary R. Diamond, James René Maillefer, Jonathan Richard T. Lake, Maryellen Lissak Giger, Li Lewei, Salvatore Mannoni, Radu Andrei, James San Antonio, Antonia Zwollo, Bruno Collin, Roman Gammad S. Barba, Sr., Fukuju Yamada, Pan Li, Charles James Lewton-Brain, David Cole, Feng Yao-Zong, Vinod Kumar Gupta, Albert Kramer, Manuel Marcelo, Paul Martin Rich, Richard Hamilton Fleming, James Olson, Carl Louis Hebinck, Ruben B. Aspiras, Peter Karl Lewin, Marcel Mechali, Renaud André Mari, Aselo Moncada Jamora, Leslie Tremaine Russell, Julius Herman Jacobson, Giuseppe Gigliobianco, Piero Lovatto, Oscar Gilberto Dam Gonzalez, Daisuke Kato, Wolf Dieter Seufert, Thomas M. Caldwell, Zhang Yangde, Francisco L. Hernandez, Jr., Hugo Ross Holden.</i>	151

Section 2 – Exploration and Discovery	161
Marine biogeography of the Baja Pacific <i>Robert William Schmieder</i>	163
Researching and recording the Maldivian cultural heritage <i>Hassan Ahmed Maniku</i>	166
Arctic nesting grounds of the Eskimo curlew <i>Robert John O’Brien, Jr.</i>	169
 The mountain bike Equa-Tour <i>Tilman Robert Rüdiger Waldthaler</i>	172
Photographing Lake Baikal in Siberia, USSR <i>Ashvin Mehta</i>	175
Computerized mapping of prehistoric tombs in Southern Spain <i>William Clayton Mathers</i>	178
Weddings around the world <i>Israel Talby</i>	181
 The dawn chorus project <i>Gordon Walker Hempton</i>	184
Walking unsupported to the North Pole <i>Roger Paul Mear</i>	187
Researching historic European artillery until ca. 1880 <i>Rudolf Roth</i>	190
Archaeological study of a prehistoric settlement near Turin <i>Carlo Viberti</i>	193
 Archaeological exploration in Patagonian archipelagos <i>Dominique Legoupil</i>	196
A glowing Christmas tree <i>Clarence I. Kado</i>	199
Operation Drakkar <i>Luc Chrétien</i>	202
Expedition in search of the Tasmanian tiger <i>Gilles Martin</i>	205
 Investigating the last voyage of the <i>San Pedro de Alcantara</i> (1784–1786) <i>Jean-Yves Marc Blot</i>	208
Cataloguing wooden statues from ancient Egypt <i>Julia Carol Van Dijk</i>	211
Round the world by sail steamship – for freedom <i>Olaf Tormodson Engvig</i>	214
Angel falls seen from a different angle! <i>Silvia Winiger</i>	217
 Cave exploration in the world’s highest limestone mountains, Indonesia <i>David Robert Checkley</i>	220
Ethnic folk arts in China’s Guizhou Province <i>Gail Melinda Rossi</i>	223

	From the Amazon to the Caribbean by canoe <i>Antonio Nuñez Jimenez</i>	226
	The Byzantine monastic movement in the Judean desert <i>Yizhar Hirschfeld</i>	229
	The Marco Polo voyage <i>Wayne Anthony Moran</i>	232
	The Goodwill constellation: Seattle 1990 Goodwill games sculpture in space <i>James Stephen Pridgeon</i>	236
	Exploring the sources of the great rivers of Asia <i>Herman How-Man Wong</i>	239
	A pharaonic village <i>Hassan Ragab</i>	242
	Etched in time <i>Ludwig Jaffe</i>	245
	Computerizing the languages of the world <i>Mary Ritchie Key</i>	248
	Punciid ostracods – A search for a living fossil <i>Kerry Michael Swanson</i>	251
	Iconographic evolution of rock art of the Southern Sahara <i>Christian Dupuy</i>	254
	Navigating the upper Yangtze for a children's vaccination programme <i>Michael Edwin Cole</i>	257
	Satellite imaging to search for lost Chinese cities of the Silk Road <i>Derrold Wayne Holcomb</i>	260
	Patterns for living – Decorated houses in rural southern Africa <i>Barbara Anne Ashworth</i>	263
	Graveyards of the British period in the Indian subcontinent <i>Susan Maria Farrington</i>	266
	Saving an old merchant sailing ship to discover the world <i>Charles Hervé-Gruyer</i>	269
	Investigating the loss of the British James Knight expedition <i>Owen Beattie</i>	272
	Cataloguing and stuying South-American colonial organs <i>Cristina Dinorah Rauss-Garcia Banegas</i>	275
	Scientific cave exploration – new perspectives for mankind <i>Gerhard E. Schmitt</i>	278
	Exploring ancient precolumbian Peruvian canal networks <i>Charles R. Ortloff</i>	281
	Windsurfing across the Pacific without a support boat <i>Shouichi Nakajima</i>	284

On the trail of the legions <i>Raymond Selkirk</i>	287
Manned exploration of the abyss <i>Andreas Buchwald Rechnitzer</i>	290
The petroglyphs of Easter Island <i>Antoni Pujador</i>	293
 The Nullarbor project <i>Robert John Palmer</i>	296
In search of dinosaurs in the southern Chubut region of Patagonia <i>Rubén Dario Martinez</i>	299
Photographic study of Mediterranean landscape and architecture <i>Neil Folberg</i>	302
The conservation of historic huts in the Ross Sea region of Antarctica <i>David Lawrence Harrowfield</i>	305
 Prospecting for iguanodons <i>Pierre Gérard G. Capront</i>	308
Short descriptions of projects submitted by: <i>Juan Antonio Bravo-Perea, Peter Brock, Antonio Iodice D'Enza, Prasanna Upali Weerawardane, Ian Meadows, Zvi Ben-Avraham, Jean Luc Sanchez, Alan Henri Simmons, Denise Lore Herzing, Eduardo Raffaelli, Bernadette Guyot-Jullien, Diana Joyce Moe, Tiberio Petro-León, Dragos Gheorghiu, Jesus Angel Ortea Rato, Michel Roggo, Sophie Anne Marie Labruhe, Anthony John Mills, Malcolm Brian Pittwood, Thomas Hewitt Rich, Jambalyn Shagj, James Brady, Claudio Stampi, Bessel Jan VandenHazel, Li Bang-Yan, Walter Edwin O. Ominde, Peter S. Winn, Shigetaka Tomotoshi, Luis Javier Rodriguez y Silva, Michail Domański, Zuraina Majid, Rebecca Ann Covalt, Antonio De Vivo, Dominic Anthony Addario, Jr., Gordon McGregor Reid, H. Stephen Green, Sandro Roberto Scarioni, José-Germán Cárdenas, Crisologo Ondoy, Marie Christine Levine.</i>	311