Stereochemistry and Global Connectivity: The Legacy of Ernest L. Eliel Volume 1



Library of Congress Cataloging-in-Publication Data

Names: Cheng, H. N., editor. | American Chemical Society. Division of Organic Chemistry.

Title: Stereochemistry and global connectivity: the legacy of Ernest L. Eliel Volume 1 / H.N. Cheng, editor (U.S. Department of Agriculture, New Orleans, Lousiana) [and three others]; sponsored by the ACS Division of Organic Chemistry.

Description: Washington, DC : American Chemical Society, [2017]- | Series: ACS symposium series ; 1257 | Includes bibliographical references and index

Identifiers: LCCN 2017045040 (print) | LCCN 2017050615 (ebook) | ISBN 9780841232372 (ebook) | ISBN 9780841232389 (hardcover v. 1 OP) | ISBN 9781713889267 (pod)

Subjects: LCSH: Stereochemistry. | Communication in science. | Conformational analysis. | Eliel, Ernest L. (Ernest Ludwig), 1921-2008.

Classification: LCC QD481 (ebook) | LCC QD481 .S7574 2017 (print) | DDC 547/.1223--dc23

LC record available at https://lccn.loc.gov/2017045040

The paper used in this publication meets the minimum requirements of American National Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI Z39.48n1984.

Copyright © 2017 American Chemical Society

Distributed in print by Oxford University Press

All Rights Reserved. Reprographic copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Act is allowed for internal use only, provided that a per-chapter fee of \$40.25 plus \$0.75 per page is paid to the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923, USA. Republication or reproduction for sale of pages in this book is permitted only under license from ACS. Direct these and other permission requests to ACS Copyright Office, Publications Division, 1155 16th Street, N.W., Washington, DC 20036.

The citation of trade names and/or names of manufacturers in this publication is not to be construed as an endorsement or as approval by ACS of the commercial products or services referenced herein; nor should the mere reference herein to any drawing, specification, chemical process, or other data be regarded as a license or as a conveyance of any right or permission to the holder, reader, or any other person or corporation, to manufacture, reproduce, use, or sell any patented invention or copyrighted work that may in any way be related thereto. Registered names, trademarks, etc., used in this publication, even without specific indication thereof, are not to be considered unprotected by law.

PRINTED IN THE UNITED STATES OF AMERICA

Contents

For	rewordix
In I	Memory of Ernest Eliel xi
Preface xiii	
1.	Stereochemistry and Global Connectivity: An Overview
	Tribute to Ernest Eliel
2.	Ernest L. Eliel as "Hidden Advisor"
3.	Science and Knowledge in the Service of Humanity: The Example of Ernest
	Eliel
	Global Connectivity
4.	Educational Outreach Activities between the ACS Division of Chemical Education's International Activities Committee and the Sociedad Cubana de Química
	Charles H. Atwood and Luis Alberto Montero-Cabrera
5.	Ernest Eliel Workshop – US and Cuba Collaboration in Chemistry Education and Neglected Disease Drug Discovery
6.	An Update on International Activities at the ACS
	Carbohydrates
7.	Saccharide Structure and Reactivity Interrogated with Stable Isotopes 105 Wenhui Zhang, Reagan Meredith, Mi-Kyung Yoon, Ian Carmichael, and Anthony S. Serianni

8.	Synthesis, X-ray Crystallographic and Computational Analysis of 2,3-Dideoxy-α- and β-D- <i>erythro</i> -Hexopyranosyl Cyanides: Anomeric Effect
	of the Cyano Group
	Madeline Rotella, Mark Bezpalko, Nicholas Piro, Nicholas Lazzara, Scott Kassel,
	Deanna Zubris, and Robert Giuliano
9.	Hydration-Mediated Effects of Saccharide Stereochemistry on Protein Heat
	Stability
	Renata Kisiliak and Yoav D. Livney
10.	Soluble Polymer Containing an N-Methyl-D-glucamine Ligand for the
	Removal of Pollutant Oxy-Anions from Water 197
	Bernabé L. Rivas and Julio Sánchez
Edi	tors' Biographies
	Indexes
Aut	thor Index
Sub	piect Index