

Senior Managing Editor

ELEANORE TAPSCOTT

Executive Editor

DARLENE BERGER

News Editor

LANTZ MILLER

Assistant Managing Editor

MARK A. NEWMAN

Senior Editor

JOAN HIAM

Editorial Assistants

DANIEL MARINIS

JENNIFER DITSLER

Art Director

ELEANOR NIGRETTO

Production Manager

STEVE KLEIN

Production

ANNE FALLIS

Advertising Manager

PETER WALSH

Advertising Associate

SANDRA HUFF

Publications Director

JOHN CHILDS

Executive Director

TORRY MARK SANSONE

Editor-in-Chief

STANLEY J. GOLDSMITH

Associate Editors

ABASS ALAVI

R. EDWARD COLEMAN

E. GORDON DEPUY

CHAITANYA DIVGI

STEVEN M. LARSON

CHRISTOPHER J. PALESTRO

SHANKAR VALLABHAJOSULA

HENRY N. WAGNER, JR.

MICHAEL J. WELCH

Editorial Board

JUDITH M. ASH
Toronto

STEPHEN L. BACHARACH
Bethesda

ANTHONY R. BENEDETTO
Galveston

HANS J. BIRSACK
Bonn

A. BERTRAND BRILL
Worcester

MANUEL L. BROWN
Pittsburgh

THOMAS F. BUDINGER
Berkeley

RONALD J. CALLAHAN
Boston

JEAN F. CHATAL
Nantes

HENRY M. CHILTON
Winston-Salem

JAMES J. CONWAY
Chicago

JOHN A. CORREIA
Boston

FRANS H.M. CORSTENS
Nijmegen

Publications Committee

ROBERT E. SONNEMAKER
Chairman

HENRY M. CHILTON

B. DAVID COLLIER

MICHAEL M. GRAHAM

LINDA A. MONROE

WARREN H. MOORE

BARRY A. SIEGEL

DAVID A. WEBER

RICHARD L. WITCOFSKI

Ex officio

STANLEY J. GOLDSMITH

H. WILLIAM STRAUSS

HENRY N. WAGNER, JR.

SUSAN C. WEISS

JAMES J. WIRRELL

MICHAEL R. ZALUTSKY

Board of Trustees

NAOMI P. ALAZRAKI

ALAN B. ASHARE

HAROLD L. ATKINS

ANTHONY R. BENEDETTO

THERESA M. BOYCE

THOMAS F. BUDINGER

RONALD J. CALLAHAN

SALLY J. DENARDO
Sacramento

FREDERICK L. DATZ
Salt Lake City

MICHAEL D. DEVOUS
Dallas

PETER J. ELL
London

FREDERICO FAZIO
Milan

DARLENE M. FINK-BENNETT
Royal Oak

ALAN J. FISCHMAN
Boston

ALAN R. FRITZBERG
Seattle

DOV FRONT
Haifa

ERNEST V. GARCIA
Atlanta

MICHAEL L. GORIS
Stanford

MICHAEL M. GRAHAM
Seattle

DONALD J. HNATOWICH
Worcester

GUSTAV HOR
Frankfurt

ABDULMASSI S. ISKANDRIAN
Philadelphia

LYNNE L. JOHNSON
Birmingham

BAN AN KHAW
Charlestown

PETER T. KIRCHNER
Iowa City

LAMK LAMKI
Houston

RAMACHANDRA D. LELE
Bombay

JONATHAN LINKS
Baltimore

ROBERT F. CARRETTA

HENRY M. CHILTON

MICHAEL L. CIANCI

JAMES J. CONWAY

BARBARA Y. CROFT

MILLARD N. CROLL

MICHAEL D. DEVOUS, SR.

GARY L. DILLEHAY

EVA V. DUBOVSKY

JANET F. EARY

DARLENE M. FINK-BENNETT

JOHN E. FREITAS

MICHAEL J. GELFAND

MICHAEL M. GRAHAM

STANLEY J. GROSSMAN

AUTHOR J. HALL

SHELLY HARTNETT

RICHARD A. HOLMES

IRAJ KHALKHALI

MICHAEL C. LING

JONATHAN M. LINKS

JAMES LITTLEFIELD

LETTY LUTZGER

DONALD LYSER

LEON S. MALMUD

CAROL S. MARCUS

JOHN B. MARTA

CAROL S. MARCUS
Torrence

GIULIANO MARIANI
Pisa

MARTIN N. NUSYNOWITZ
Galveston

MARCUS E. RAICHEL
St. Louis

LEONARD ROSENTHALL
Montreal

JOSEPH J. SANGER
New York

YASUHIITO SASAKI
Tokyo

HEINRICH R. SCHELBERT
Los Angeles

MARKUS SCHWAIGER
Munich

ANDREW M. SCOTT
Melbourne

JAMES A. SCOTT
Boston

MICHIO SENDA
Tokyo

ALDO N. SERAFINI
Miami

H. WILLIAM STRAUSS
Princeton

RAYMOND TAILLEFER
Montreal

SAL T. TREVES
Boston

RICHARD L. WAHL
Ann Arbor

MICHAEL R. ZALUTSKY
Durham

LIONEL ZUCKIER
New York

I. ROSS McDougall

Kenneth A. McKusick

Darrell W. McIndoe

Linda Monroe

Paul H. Murphy

Anne E. Peterdy

Louis Perez

J. Randolph Perry

Richard N. Pierson

Donald A. Podoluff

Richard C. Reba

Martin P. Sandler

Donald A. Schauwecker

George Segall

Jeffrey A. Siegel

Edward B. Silberstein

Robert E. Sonnemaker

Jean-Paul Soucy

Arnold Strashun

James L. Tatum

Andrew T. Taylor, Jr.

Wynn A. Volkert

Wayne I. Wcislo

Paul E. Weiss

James M. Woolfenden

Pamela Zabel

Said Zu'bi