

# *The* **ANGLE ORTHODONTIST**

An International Journal of Orthodontics and Dentofacial Orthopedics since 1930

www.angle.org

Volume 94, Number 4, July 2024

## **Editor**

Steven J. Lindauer  
Richmond, VA  
e-mail: sjlindau@vcu.edu

## **Associate Editors**

Phillip M. Campbell, Huntsville, TX  
R. Scott Conley, Indianapolis, IN  
David Covell, Buffalo, NY  
Carlos Flores-Mir, Edmonton, Canada

Ahmad Hamdan, Amman, Jordan  
Ching-Chang Ko, Columbus, OH  
Shin-Jae Lee, Seoul, Korea  
Bhavna Shroff, Richmond, VA



*Edward H. Angle*

## **Sponsorship Director**

Ann Marie Gorczyca  
Antioch, CA  
e-mail: amgortho@aol.com

## **The E. H. Angle Education and Research Foundation, Inc.**

### **Board of Directors, 2023–2025**

R. Scott Conley, President  
Bryan Hicks, Vice President  
Bhavna Shroff, Secretary  
Jae Park  
Milton D. Chan  
Ron Jacobson  
David Briss  
Daniella Phillis  
Ronald L. Champion, Treasurer  
Steven J. Lindauer (ex officio)  
Daniel E. Percy  
Peter M. Greco

Director, Angle North Atlantic  
Director, Angle Northwest

Director, Angle Northern California  
Director, Angle Southern California  
Director, Angle Midwest  
Director, Angle East  
Director, Angle Southwest

Editor, *The Angle Orthodontist*  
Immediate Past President  
Historian

# The **ANGLE ORTHODONTIST**

An International Journal of Orthodontics and Dentofacial Orthopedics since 1930

www.angle.org

## Editorial Board Members

Additional reviewers with special expertise are called upon on a regular basis.

Sercan Akyalcin '23, Boston, Mass.  
Eman Alkofide '23, Riyadh, Saudi Arabia  
Marcio Rodrigues Almeida '23, Bauru, Brazil  
Isil Aras '23, Jacksonville, FL  
Seung-Hak Baek '23, Seoul, South Korea  
Asli Baysal '23, Izmir, Turkey  
Cynthia S. Beeman '23, Lexington, KY  
Philip Benson '23, Sheffield, UK  
David W. Berzins '26, Milwaukee, Wis.  
Robert L. Boyd '23, San Francisco, Calif.  
William Brantley '23, Columbus, Ohio  
Naphthali Brezniak '23, Tel-Aviv, Israel  
Peter H. Buschang '26, Dallas, Texas  
Jie Chen '23, Indianapolis, IN  
Aditya Chhibber '23, New York, NY  
Furkan Dindaroglu '23, Izmir, Turkey  
Richard E. Donatelli '23, Gainesville, FL  
Carla Evans '23, Boston, MA  
Padhraig Fleming '23, London, UK  
Lorenzo Franchi '23, Firenze, Italy  
Juan Pablo Gomez '23, Pereira, Colombia  
Bruce Haskell '23, Louisville, KY  
Garland Hershey '23, Chapel Hill, NC  
Sarandeep S. Huja '26, Charleston, SC  
Mashiro Iijima '23, Hokkaido, Japan  
Gaetano Isola '23, Catania, Italy  
Guilherme Janson '23, Bauru, Brazil  
Min-Ho Jung '23, Seoul, Korea  
Onur Kadioglu '26, Oklahoma City, OK  
Ki Beom Kim '23, St. Louis, Mo.  
Yukio Kitafusa '23, Asahi City, Japan  
Arndt Klocke '23, Hamburg, Germany  
Michael Knoesel '23, Göttingen, Germany  
Neal Kravitz '23, South Riding, VA  
Andrew Kuhlberg '23, Avon, CT  
Budi Kusnoto '23, Chicago, IL  
Manuel Lagravere '26, Edmonton, Alberta, Canada  
Rosalia Leonardi '23, Catania, Italy

Roberta Lione '23, Via dei Gracchi, Rome, Italy  
James A. McNamara, Jr '23, Ann Arbor, Mich.  
Peter Miles '23, Caloundra, Australia  
John Morton '23, San Jose, Calif.  
Ravindra Nanda '23, Farmington, Conn.  
David Normando '23, Belem, Brazil  
Riccardo Nucera '23, Messina, Italy  
Omur Polat Ozsoy '23, Ankara, Turkey  
E. K. Pae '23, Baltimore, MD  
Nikolaos Pandis '26, Bern, Switzerland  
Spyridon Papageorgiou '23, Zurich, Switzerland  
Jae Hyun Park '23, Mesa, Ariz.  
David Parks '23, Wenatchee, WA  
Hans Ulrick Paulsen '23, Copenhagen, Denmark  
Letizia Perillo '23, Naples, Italy  
Giuseppe Perinetti '23, Trieste, Italy  
Matheus Melo Pithon '23, Bahia, Brazil  
Birte Prah-Anderson '23, Amsterdam, The Netherlands  
Joe Rebellato '23, Charlottesville, VA  
W. Eugene Roberts '23, Indianapolis, Ind.  
Dan L. Romanyk '23, Edmonton, Canada  
Paul Emile Rossouw '23, Rochester, NY  
Antonino Russo '23, Stony Brook, NY  
Robert Schindel '26, Stony Brook, NY  
Jadbinder Seehra '26, London, UK  
Thomas E. Southard '23, Iowa City, Iowa  
Heeyeon Suh '23, San Francisco, CA  
Kazuo Tanne '23, Hiroshima, Japan  
Eser Tufekci '23, Richmond, VA  
Hakan Turkkahraman '23, Indianapolis, IN  
Madhur Upadhyay '23, Farmington, CT  
Flavio Uribe '23, Farmington, CT  
Manish Valiathan '23, Cleveland, OH  
Katherine J. Dryland Vig '23, Boston, Mass.  
Sunil Wadhwa '23, New York, NY  
Atalia Wasserstein '23, Jerusalem, Israel  
Sumit Yadav '23, Farmington, CT  
Il-Hyung Yang '23, Seoul, Korea

## Emeritus Editorial Board Members

James Ackerman, Wilmington, NC  
Adrian Becker, Jerusalem, Israel  
Rolf Behrents, St. Louis, Mo.  
Thomas Mulligan, Phoenix, Ariz.  
Ram Nanda, Oklahoma City, Ok.

Robert J. Nikolai, St. Louis, Mo.  
Hans Pancherz, Giessen, Germany  
J.F. Camilla Tulloch, Chapel Hill, NC  
Bjorn Zachrisson, Oslo, Norway  
Yerucham Zilberman, Jerusalem, Israel