Values

- develop student thinking and problem solving
- integrate real world issues with theories in STEM
- respond to employer needs and expectations
- use educational research and student assessment to inform innovations in education

Mission Statement

To promote high-quality undergraduate education in science, technology, engineering and mathematics through peer reviewed articles that provide

- Case studies and other innovations in education
 - Well founded in STEM content
 - Informed by educational research
 - Tested through assessment of impact on student learning
- Results from educational research that informs teaching and learning in STEM
- Recent developments that impact STEM education in such areas as policy and industry needs

Editor-in-Chief

P.K. Raju, Ph.D.

Department of Mechanical Engineering 1452 Wiggins Hall, Auburn University, AL 36849

Phone: (334) 844–3301 Fax: (334) 844–3307 Email: pkraju@auburn.edu

Managing Editor

Murty P Raju

Phoné: (678) 313-9672 Email: Murty_raju@yahoo.com

Associate Editor

Eliza Banu, Ph.D.

School of ECAM, College of Engineering,

The University of Georgia

597 D.W. Brooks Dr, Athens, GA, 30602

Phone: (706) 542-8869 Email: Eliza.Banu@uga.edu

Editorial Assistants

Amv Clark

Department of Mechanical Engineering 3440 Wiggins Hall, Auburn University, AL 36849

Phone: (843) 598-4510 Fax: (334) 844-3307 Email: azc0079@auburn.edu

Sarah E. Franklin

Biological Engineering The University of Georgia

Phone: (706) 936-7447 Email: sef99837@uga.edu

Managing Editor (Emeritus)

Chetan S. Sankar Auburn University

Phone: (334) 524-6436 Email: sankacs@auburn.edu

International Editorial Advisory Board Members

Stephanie G Adams, Dean, Frank Batten College of Engineering & Technology, Old Dominion University, Norfolk, VA

M. Dayne Aldridge, Adjunct Accreditation Director for Engineering, ABET, Washington DC

Timothy J. Anderson, Dean, College of Engineering, University of Massachusetts, Amherst

Cynthia Atman, Director, Center for Engineering Leaning and Teaching, University of Washington, WA

Frank S. Barnes, Distinguished Professor, Electrical and Computer Engineering, University of Colorado, Boulder, CO

Myles Boylan, Program Director, National Science Foundation

John D. Bransford, James W. Mifflin University, Professorship and Professor, College of Education, University of Washington, WA

Monica F. Cox, Professor & Chair, Department of Engineering Education, College of Engineering,
The Ohio State University Columbus OH

Victor L. Cubillos, Rector, Universidad Austral de Chilie, Valdivia, CHILE

Tim Edlund, Past President, NACRA, Associate Professor, Earl G. Graves School of Business and Management, Morgan State University, MD

Lyle Feisel, Retired, Dean Emeritus of Thomas J. Watson School of Engineering and Applied Science, Binghampton University, NY

Richard Felder, Hoechst Celanese Professor Emeritus, Department of Chemical and Biomolecular Engineering, North Carolina State University, NC

Norman Fortenberry, Executive Director, American society for Engineering Education, Washington DC

Wallace T. Fowler, University Distinguished Teaching Professor, Department of Aerospace Engineering and Engineering Mechanics. The University of Texas at Austin. TX

Eli Fromm, Director, Center for Educational Research, Drexel University

Lothar Gaul, Director, Institut fur Mechanik, University of Stuttgart, GERMANY

Alain Gerard, Professor, Laboratoire de Mecanique Physique, Universite Bordeaux, FRANCE

George Hairston, Retired Chairman, Southern Nuclear Operating Company, Inc., Birmingham, AL

Mario Letelier, Director, Center for Research in Creativity and Higher Education, University of Santiago de Chile, CHILE

Carolyn W. Meyers, President, Jackson State University, Jackson, MS

J.P. Moshen, Past President, American Society for Engineering Education (2009), Professor and Chair, Civil Engineering Department, University of Louisville, Louisville, KY

R. Natarajan, Retired, Director, Indian Institute of Technology, Chairman, Board for Information Technology Education Standards, Bangalore, INDIA

George Peterson, Executive Director Emeritus, Accreditation Board for Engineering and Technology, Baltimore, MD

Winfred M. Phillips, Senior Vice President and Chief Operating Officer, University of Florida, FL

Russell L. Pimmel, Retired, Program Director, CCLI?DUE, National Science Foundation, Arlington, VA

Karl-Heinz Rau, Professor, Business School, Pforzheim University, GERMANY

Joseph J. Rencis, Dean of Engineering, Professor of Mechanical Engineering, Cal Poly, Pomona, CA

Christopher Roberts, Dean, Samuel Ginn College of Engineering, Auburn University, AL

Sydney Rogers, Executive Director, Alignment, Nashville, TN

Eric Sheppard, Dean, School of Engineering and Technology, Hampton University, VA

Larry J. Shuman, Professor and Associate Dean for Academic Affairs, School of Engineering,

Karl A. Smith, Morse-Alumni distinguished Teaching Professor of Civil Engineering, University of Minnesota, MN

Nam P. Suh, Former President, Korea Advanced Institute of Science and Technology (KAIST), KOREA

Phillip C. Wankat, Clifton L. Lovell distinguished Professor of Chemical Engineering, Director, Undergraduate Degree Programs, Purdue University, IN

Steve E. Watkins, Professor of Electrical and Computer Engineering, University of Missouri Rolla, MO