Contents

From the Editor
2 Jackie Robinson, Molybdenum, and the JTE
Chris Merrill

Articles
4 Formulating a Concept Base for Secondary Level Engineering: A Review and Synthesis
Rodney L. Custer, Jenny L. Daugherty, and Joseph P. Meyer
22 Academic Preparedness as a Predictor of Achievement in an Engineering Design Challenge
Nathan Mentzer and Kurt Becker
43 EnviroTech: Enhancing Environmental Literacy and Technology Assessment Skills
Mary Annette Rose
58 A Study of Mathematics Infusion in Middle School Technology Education Classes
M. David Burghardt, Deborah Hecht, Maria Russo, James Lauckhardt, and Michael Hacker
75 Graduate Research in Technology and Engineering Education: 2000-2009
W. Tad Foster

Book Review
88 Using Technology with Classroom Instruction that Works
Krista L. Bowen

Miscellany
91 Scope of the JTE
Editorial/Review Process
Manuscript Submission Guidelines
Subscription information
JTE Co-sponsors and Membership Information
Electronic Access to the JTE