## **Contents**

## From the Editor

2 Musings about Technology and Engineering Education P. John Williams

## **Articles**

- 10 The Problem in Technology Education (A Definite Article) *Jim Flowers*
- 21 STEM Education and Leadership: A Mathematics and Science Partnership Approach Chris Merrill and Jenny Daugherty
- 35 Characterization of a Unique Undergraduate Multidisciplinary STEM K-5 Teacher Preparation Program Steve O'Brien
- 52 A Case for the Nationwide Inclusion of Engineering in the K-12 Curriculum via Technology Education

  Thomas E. Pinelli and W. James. Haynie, III
- 69 Engineering Student Outcomes for Infusion into Technological Literacy Programs: Grades 9 -12 Craig Rhodes and Vincent Childress

## Miscellany

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