ACTIVE LEARNING IN SOPHOMORE MATHEMATICS: A CAUTIONARY TALE
M. Eisenberg 143

TEACHING INNOVATIONS IN AN INTRODUCTORY PHYSICS COURSE FOR NON-SCIENCE MAJORS
W. J. Mullin 165

EXPERIENCES AND THOUGHTS ON STEMTEC-INSPIRED CHANGES IN TEACHING PHYSICS FOR LIFE SCIENCE MAJORS
M. S. Z. Rabin 173

PART II: Regular Journal Features

THE MATHEMATICS OF INFORMATION SCIENCE
J. Zimmerman and J. W. Smith 187

SHAPING PRE-SERVICE TEACHERS’ ATTITUDES: AN INQUIRY APPROACH TO COURSE REFORM
M. F. Neathery, B. Campbell, and J. Chandler 215

THE IMPACT OF A SUMMER WORKSHOP: STAFF ORIENTATION AT MESA COMMUNITY COLLEGE
D. Sawada and J. Turley 223

STUDENT WORK SECTION, R. Howard, Section Editor 231
THE EFFECTS OF ACID DEPOSITION
B. Proffitt 231
CONTENTS Volume 4, Number 1

PART I: "Pathways to Change"
STEMTEC – Massachusetts Collaborative for Excellence in Teacher Preparation

AN INTRODUCTION TO STEMTEC AND "PATHWAYS TO CHANGE"
C. D’Avanzo and R.F. Yuretich 1

IT’S FUN, BUT IS IT SCIENCE? GOALS AND STRATEGIES IN A PROBLEM-BASED LEARNING COURSE
M.S. Bruno and C.D. Jarvis 9

PROJECT- AND GROUP-BASED LEARNING OF JUNIOR WRITING IN BIOLOGY
J.G. Kunkel 25

EXAMINATION OF STUDENT-ACTIVE LEARNING PRACTICES IN A COLLEGE/MIDDLE SCHOOL EDUCATIONAL COLLABORATION
S. Prattis and I. Czerwiec 43

THE STCC SCIENCE TEACHING INTERN PROJECT
N. Rapoport 61

THE IMPACT OF A NATIONAL SCIENCE FOUNDATION COLLABORATIVE FOR EXCELLENCE IN TEACHER PREPARATION ON AN UNDERGRADUATE CHEMISTRY COURSE FOR NON-CHEMISTRY SCIENCE MAJORS
J. Tyson 71

INTEGRATION OF MULTIMEDIA INTERACTIVE WEB TOOLS WITH IN-CLASS ACTIVE LEARNING
A. Ganz, K. Wongthavarawat, and A. Phonphoem 85

THE THAYER METHOD: STUDENT ACTIVE LEARNING WITH POSITIVE RESULTS
E. Connors 101

ALTERNATIVE MODES FOR TEACHING MATHEMATICAL PROBLEM SOLVING: AN OVERVIEW
H.A. Peelle 119

(Contents continued inside)