

# Contents

**Foreword**..... vii

*Barbara Reys*, University of Missouri

1. **Mathematics Teacher Educators Engaging .....1  
in scholarly Practices and Inquiry**

*Hollylynne S. Lee*, North Carolina State University

*Denise S. Mewborn*, University of Georgia

2. **Designing and Using Tasks to Teach .....7  
Mathematical Knowledge for Teaching**

*Kara Suzuka*, University of Michigan

*Laurie Sleep*, University of Michigan

*Deborah Loewenberg Ball*, University of Michigan

*Hyman Bass*, University of Michigan

*Jennifer Lewis*, University of Michigan

*Mark Thames*, University of Michigan

3. **Developing Mathematics Knowledge for .....25  
Teaching in a Content Course: A  
“Design Experiment” Involving Mathematics  
Educators and Mathematicians**

*Alison Castro Superfine*, University of Illinois at Chicago

*Philip Wagreich*, University of Illinois at Chicago

4. **Establishing Social and Sociomathematical .....43  
Norms in an Undergraduate Mathematics  
Content Course for Prospective Teachers:  
The Role of the Instructor**

*Juli K. Dixon*, University of Central Florida

*Janet B. Andreasen*, University of Central Florida

*Michelle Stephan*, Lawton Chiles Middle School and  
University of Central Florida

5. **The Development of Mathematical Knowledge ...67  
for Teaching in the Student Teaching  
Practicum**

*Kimberly Markworth*, University of North Carolina,  
Chapel Hill

*Tijuana Goodwin*, Chapel Hill-Carrboro City Schools

*Kelsey Glisson*, University of St. Andrews

6. **Supporting Preservice Teachers' Learning: .....85  
A Fraction Operations Task and its  
Orchestration**

*Margaret Rathouz*, University of Michigan-Dearborn

*Rheta N. Rubenstein*, University of Michigan-Dearborn

7. **One Credential Program Looks in the Mirror ..105**

*Julie Gainsburg*, California State University, Northridge

*Suzanne Scheld*, California State University, Northridge

*Christina von Mayrhauser*, California State University,  
Northridge

*Carrie Rothstein-Fisch*, California State University,  
Northridge

*Michael Spagna*, California State University, Northridge

8. **Field Experiences: An Opportunity for .....121**  
**Mentor Learning**

*Ginger Rhodes*, University of North Carolina-Wilmington  
*Patricia S. Wilson*, University of Georgia

9 **Preservice Mathematics Teachers Learning .....137**  
**to Inquire Into Their Practice: Cases of**  
**Trying-On Reform**

*Rebekah Elliott*, Oregon State University

10. **Deliberate Preparation of Prospective .....153**  
**Teachers for Early Field Experiences**

*Laura R. Van Zoest*, Western Michigan University  
*Shari L. Stockero*, Michigan Technological University

11. **Doing Mathematics in Professional .....171**  
**Development to Build Specialized Content**  
**Knowledge for Teaching**

*Elham Kazemi*, University of Washington  
*Rebekah Elliott*, Oregon State University  
*Kristin Lesseig*, Oregon State University  
*Judy Mumme*, WestEd  
*Cathy Carroll*, WestEd  
*Megan Kelley-Petersen*, University of Washington

12. **El Huerto de Manzanas: Reading .....187**  
**Comprehension Awareness for Teaching**  
**Secondary English Learners**

*Carl A. Lager*, University of California, Santa Barbara

13. **Designing Opportunities to Learn to Lead.....203**  
**Classroom Mathematics Discussions in**  
**Pre-service Teacher Education:**  
**Focusing on Enactment**

*Hala N. Ghouseini*, University of Michigan