

# Notices

of the American Mathematical Society

**Women...should be fearless**

to seek those who are willing to invest in, and help grow, their talent.

—Rosemary Guzman



March 2018

## FEATURED



### Women's History Month

Introduction

Profiles of Twenty-Seven Mathematicians

Early Women Mathematicians in Princeton

Guest Editors Margaret A. Readdy and Christine Taylor



### Spring Central Sectional Sampler

Recent Progress in the Zimmer Program

by Aaron Brown

Bi-Lipschitz Equivalence of Groups

by Tullia Dymarz

The Correlation Constant of a Field

by June Huh



### Graduate Student Section

Interview with Kathryn Hess

Conducted by Melinda Lanius

WHAT IS...an Information Projection?

by Frank Nielsen

Our special section for Women's History Month provides inspiring and humbling reminders of how much some individuals have contributed to mathematics, often under very difficult circumstances, and how much we need to welcome and respect all. First in our minds are three recently deceased mathematical giants—Maryam Mirzakhani, Cathleen Morawetz, and Marina Ratner—with memorials planned for future issues. Marie A. Vitulli provides two reports: one on "Gender Differences in First Jobs..." and another on Wikipedia pages about women mathematicians. We are happy to report that for *Notices* the number of women authors rose from 35 (16%) in 2015 to 61 (30%) in 2017. We all need to combat discrimination and prejudice within ourselves and others. UCI Math's Alice Silverberg has an eye-opening collection of experiences and observations on the subject in her blog *Adventures in Numberland* (see: <https://sites.google.com/site/numberlandadventures>). This issue also includes a lecture sampler for the March AMS Spring Central Sectional at Ohio State University, an interview with Kathryn Hess, and "WHAT IS...an Information Projection?" by Frank Nielsen. Enjoy the month and the math. —*Frank Morgan, Editor-in-Chief*

### ALSO IN THIS ISSUE

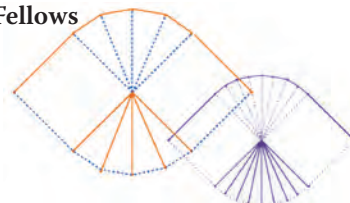
- 313 Open Problems Concerning Michell Trusses  
*Wilfrid Gangbo*
- 326 Gender Differences in First Jobs for New US PhDs in the Mathematical Sciences  
*Marie A. Vitulli*
- 330 Writing Women in Mathematics into Wikipedia  
*Marie A. Vitulli*
- 335 Letters to the Editor
- 341 Herbert Busemann  
*Athanase Papadopoulos*
- 350 Report on 2015–2016 New Doctoral Recipients  
*Amanda L. Goldbeck, Thomas H. Barr, and Colleen A. Rose*

### ALSO IN THIS ISSUE, CONT'D.

- 360 Report on 2015–2016 Employment Experiences of the New Doctoral Recipients  
*Amanda L. Goldbeck, Thomas H. Barr, and Colleen A. Rose*

### FROM THE AMS SECRETARY.

- 244 Call for Nominations: 2019 Leroy P. Steele Prizes
- 346 2018 AMS Class of Fellows



## IN EVERY ISSUE

- 337 Mathematics People
- 344 Mathematics Opportunities
- 366 New Publications Offered by the AMS
- 368 Classified Advertising
- 371 Meetings and Conferences of the AMS
- 384 In the Next Issue

## CURRENT INVITATIONS FROM THE AMS

- cover 2 MRC 2020
- 241 MathPrograms.Org
- 244 Call for Nominations: 2019 Leroy P. Steele Prizes
- 312 2018 AMS Einstein Public Lecture in Mathematics
- 325 Start an AMS Graduate Student Chapter
- 345 Join the AMS
- 349 Annual Survey: Data of Interest to You
- 370 Join MathSciNet®
- 380 Call for Proposals for JMM 2019



MAA PRESS

An Imprint  
of the  
AMERICAN  
MATHEMATICAL  
SOCIETY

## INVITATION TO NUMBER THEORY

Oystein Ore

SECOND EDITION

Revised and updated  
by John J. Watkins and Robin Wilson

With the addition of new material on Fermat's Last Theorem, the role of computers in number theory, and the use of number theory in cryptography, this introduction to number theory is in line with contemporary developments in the field. The authors have also made numerous minor changes in the presentation and layout of the text and the exercises.



**Anneli Lax New  
Mathematical Library,**  
Volume 49; 2017; 134  
pages; Softcover; ISBN:  
978-0-88385-653-6; List  
US\$48; AMS members  
US\$38.40; Order code  
NML/49

 **AVAILABLE IN  
EBOOK FORMAT**

ORDER YOUR COPY AT  
[BOOKSTORE.AMS.ORG/NML-49](http://BOOKSTORE.AMS.ORG/NML-49)

 **AMS** AMERICAN  
MATHEMATICAL  
SOCIETY