Pythagorean Triples Containing Fibonacci Numbers: Solutions for $F_n^2 + F_k^2 = R^2$ .......... Marjorie Bicknell-Johnson 1

Strong Divisibility Sequences and
Some Conjectures ........................................ Clark Kimberling 13

Greatest Common Divisors of Sums and Differences of Fibonacci, Lucas, and Chebyshev Polynomials .......... Clark Kimberling 18

Probability via the Nth Order Fibonacci-T Sequence .................................................. Stephen John Turner 23

Some Congruences Involving Generalized Fibonacci Numbers .............................. Charles R. Wall 29

Enumeration of Truncated Latin Rectangles ...... P. W. Light, Jr. 34

The Normal Modes of a Hanging Oscillator of Order $N$ ................................................. John Boardman 37

Congruences for Certain Fibonacci Numbers ........ Norvald Midttun 40

Some Divisibility Properties of Generalized Fibonacci Sequences .................... Paul S. Bruckman 42

A Note on a Pell-Type Sequence ................. William J. O'Donnell 49

Periods and Entry Points in Fibonacci Sequence .............................. A. Allard and P. Lecomte 51

Generating Functions of Central Values in Generalized Pascal Triangles ..... Claudia Smith and Verner E. Hoggatt, Jr. 58

Solution of $\left( \begin{array}{c} y+1 \\ x \end{array} \right) = \left( \begin{array}{c} y \\ x+1 \end{array} \right)$ in Terms of Fibonacci Numbers ................................................... James C. Owings, Jr. 67

The Diophantine Equation

$Nb^2 = a^2 + N + 1$ ........ David A. Anderson and Milton W. Loyer 69

Matrix Generators of Pell Sequences ................. Joseph Ercolano 71

Two Theorems Concerning Hexagonal Numbers .. William J. O'Donnell 77

Some Sequences Like Fibonacci's .. B. H. Neumann and L. G. Wilson 80

Nearly Linear Functions ... V. E. Hoggatt, Jr., and A. P. Hillman 84

Elementary Problems and Solutions ........ Edited by A. P. Hillman 90

Advanced Problems and Solutions .... Edited by Raymond E. Whitney 94
The Fibonacci Quarterly

THE OFFICIAL JOURNAL OF THE FIBONACCI ASSOCIATION
DEVOTED TO THE STUDY
OF INTEGERS WITH SPECIAL PROPERTIES

EDITOR
Verner E. Hoggatt, Jr.

CO-EDITOR
Gerald E. Bergum

EDITORIAL BOARD

H. L. Alder
Marjorie Bicknell-Johnson
Paul F. Byrd
L. Carlitz
H. W. Gould
A. P. Hillman

David A. Klirner
Leonard Klosinski
Donald E. Knuth
C. T. Long
M. N. S. Swamy
D. E. Thoro

WITH THE COOPERATION OF

Maxey Brooke
Bro. A. Broussseau
Calvin D. Crabill
T. A. Dabis
A. F. Horadam
Dov Jarden
L. H. Lange

James Maxwell
Sister M. DeSales
McNabb
John Mitchem
D. W. Robinson
Lloyd Walker
Charles H. Wall

The California Mathematics Council

All subscription correspondence should be addressed to Prof. Leonard Klosinski, Mathematics Department, University of Santa Clara, Santa Clara, California 95053. All checks ($15.00 per year) should be made out to the Fibonacci Association or Fibonacci Quarterly. Two copies of manuscripts intended for publication in the Quarterly should be sent to Verner E. Hoggatt, Jr., Mathematics Department, San Jose State University, San Jose, California 95192. All manuscripts should be typed, double-spaced. Drawings should be made the same size as they will appear in the Quarterly, and should be drawn in India ink on either vellum or bond paper. Authors should keep a copy of the manuscripts sent to the editors.

The Quarterly is entered as 3rd-class mail at the University of Santa Clara Post Office, Calif., as an official publication of The Fibonacci Association.

The Fibonacci Quarterly is published in February, April, October, and December each year.