FOURTEENTH INTERNATIONAL CONFERENCE ON FIBONACCI NUMBERS AND THEIR APPLICATIONS

Mathematical Institute UNAM, Morelia, Mexico
July 5–9, 2010

Monday, July 5 – First Day of the Conference

8:30–9:15	**Pick up packets and say hello**
9:15–9:30	**Welcome and announcements**

Monday Morning Session – moderated by William A. Webb

Time	Title	Author
9:30–9:55	The k-Zeckendorf array	C. Cooper
9:55–10:20	The Wytoff triangle and unique representations of positive integers	C. Kimberling
10:20–10:45	Crossing numbers for Fibonacci distance graphs	H. Harborth
10:45–11:10	Some specific Binet forms for higher-dimensional Jacobsthal and other recurrence relations	C. Cook R. A. Hillman* G. E. Bergum
11:10–11:35	Tetrabons: The fundamental regions of a three-space Zeckendorf representation	P. G. Anderson
11:35–12:00	*Coffee Break*	
12:00–12:25	Continued fractions consisting of alternating string patterns	R. J. Hendell
12:25–12:50	Non-overlap property of the Thue-Morse sequence	T. Cusick P. Stănică*
12:50–1:15	Representing positive integers as a sum of linear recurrence sequences	N. Hamlin* W. A. Webb

1:15–3:00	*Lunch break*

Monday Afternoon Session – moderated by Florian Luca

Time	Title	Author
3:00–3:25	Cryptography Using Recurrence Sequence Bases	B. Krishnamoorthy Nathan Moyer W. A. Webb*
3:25–3:50	Fibonacci numbers which are sums of three factorials	M. Bollman S. H. Hernández* F. Luca
3:50–4:15	The sequence $\phi(F_n)/F_n$ is dense in $[0, 1]$	F. Luca V. J. Mejía Huguet* F. Nicolae
4:15–4:40	*Coffee Break*	
4:40–5:05	Tojjaldi sets: An original idea applicable to first digits in both the Fibonacci and Lucas series	T. Barrale
5:05–5:30	The Electronic *Fibonacci Quarterly*	K. Dilcher* C. Cooper*

6:00–9:00	*Wine & Cheese Reception*

Tuesday Morning Session – moderated by Peter Anderson

Time	Title	Author
9:30–9:55	Matrices with forbidden submatrices	W. A. Webb*
9:55–10:20	Slicing the Menger Sponge	P. Stockmeyer
10:20–10:45	Lucas sequences with discriminant -3 times a square	C. Ballot
10:45–11:10	Large values of some arithmetic functions	M. O. Hernane* J. L. Nicolas
11:10–11:35	Arithmetic progressions in the y-coordinates of certain elliptic curves	A. Alvarado
11:35–12:00	*Coffee Break*	
12:00–12:25	A new characterization of Fibonacci numbers	A. Pínter* V. Ziegler
12:25–12:50	About (a, b)-type balancing numbers	K. Liptai
12:50–1:15	Further generalizations of the Fibonacci-coefficient polynomials	M. Ferenc
1:15–3:00	*Lunch break*	

Tuesday Afternoon Session – moderated by Clark Kimberling

Time	Title	Author
3:00–3:25	On the nearest integer of the sum of the reciprocals of Fibonacci numbers	T. Komatsu
3:25–3:50	On arithmetic properties of a generalized difference operator	K. Ozeki
3:50–4:15	Optimal Strategy for Defending A Chain in *Risk*	D. Glass
4:15–4:45	*Coffee Break*	
4:45–5:10	Musical Compositions with Zeckendorf Representations (*Auditorium*)	C. Mongoven* R. Knott

The Edouard Lucas Invited Lecture
Auditorium

5:30–6:30	*Combinatorial Trigonometry (and a method to DIE for)*	A. Benjamin

Wednesday Morning Session – moderated by Curtis Cooper

Time	Title	Author
9:30–9:55	The Combinatorialization of Linear Recurrences	A. Benjamin*
		H. Derks
		J. Quinn
9:55–10:20	Block tridiagonal matrices and Fibonacci numbers	A. Yalçiner
10:20–10:45	Generating matrices of C-nomial coefficients and their spectra	E. Kilic
		P. Stănică*
10:45–11:10	More on Fibonomials	C. Pita
11:10–11:35	Tiling Rectangles, Cylinders, Tori, Möbius Strips, and Klein Bottles	P. G. Anderson
11:35–12:00	*Coffee Break*	
12:00–12:25	Generalizations of Bernoulli numbers and factorial sums	P. T. Young
12:25–12:50	Extending the GCD Star of David Theorem to more than two GCDs	C. Long
12:50–1:15	Hexahexaflexagons: A mathematical ramble	M. Bicknell-Johnson*
		C. P. Spears
1:15–1:40	*Workshop: Fold your own Hexahexaflexagon*	M. Bicknell-Johnson*
		F. Johnson*
1:40–3:00	*Lunch break*	

Wednesday Afternoon

Time	Title	
3:00–3:05	*Group Photo*	
3:05–6:00	*Organized tour of Morelia*	
6:30–9:30	*Conference Banquet at Restaurant Villa Montaña*	

Thursday Morning Session – moderated by Pantelimon Stănică

Time	Title	Author
9:30–9:55	Mod p^3 analogues of theorems of Gauss and Jacobi on binomial coefficients	J. B. Cosgrave K. Dilcher*
9:55–10:20	On the binary expansion of the odd Catalan numbers and p-adic congruences for p^q-Catalan numbers	F. Luca P. T. Young*
10:20–10:45	The "Magicness" of powers of some magic squares	M. R. Bacon C. Cook* R. Hillman
10:45–11:10	Large alternating subsets and successions	A. Munagi
11:10–11:35	On odd perfect numbers of special forms	L. Gallardo O. Rahavandrainy
11:35–12:00	*Coffee Break*	
12:00–12:25	On triunitary and tetraunitary numbers	L. Bardomero* D. Iannucci
12:25–12:50	On triunitary and tetraunitary numbers II	L. Bardomero D. Iannucci*
12:50–1:15	Multiperfect Fibonacci numbers	K. Broughan M. González R. Lewis F. Luca* V. J. Mejía Huguet A. Togbé

1:15–3:00   *Lunch break*

Thursday Afternoon Session – moderated by Karl Dilcher

Time	Title	Author
3:00–3:25	Growth Rates of Recurrence Sequences with Periodic Coefficients	Karyn McLellan
3:25–3:50	Asymptotic behavior of solutions to min-max recurrences of higher-order	K. S. Berenhaut E. M. Magargee* S. M. Rabidoux
3:50–4:15	Fibonacci-type piecewise linear recurrences and generalized Ramanujan-Nagell equations	K. S. Berenhaut E. M. Magargee B. Stancil*
3:50–4:15	An Application of Recursive Sequences to Expansions for Distributions of Sums of Random Variables	K. S. Berenhaut R. Hilton*
4:15–4:40	*Coffee Break*	
4:40–5:05	An Application of Recursive Sequences to Expansions for Distributions of Sums of Random Variables	K. S. Berenhaut R. Hilton*
5:05–5:30	Asymptotic Behavior of Solutions to Symmetric Rational Recurrences	K. S. Berenhaut A. Jones*

6:00–9:00   *Mexican fiesta at Florian's house*

Friday Morning Session – moderated by Florian Luca

Time	Title	Author
9:30–9:55	Waring type problem involving Fibonacci numers in fields of prime order	V. C. García* F. Luca V. J. Mejía Huguet
9:55–10:20	Fibonacci numbers divisible by their indices	J. J. Alba González* F. Luca C. Pomerance
10:20–10:45	Fibonacci, Riesel and Sierpiński	F. Luca V. J. Mejía Huguet*
10:45–11:10	Smooth values of $x^2 \pm 2$	S. Guzman
11:10–11:35	Fibonacci numbers which are sums of two repdigits	S. D. Alvarado* F. Luca
11:35–12:00	*Coffee Break*	
12:00–12:25	Fibonacci Integers	F. Luca* C. Pomerance S. Wagner
12:25–12:50	*Problem Session*	C. Kimberling
12:50–1:15	*Business meeting*	W. A. Webb
1:15–3:00	*Lunch break*	
3:00–6:00	*Board meeting*	

Saturday

10:00–5:00	*Trip To Patzcuaro*	