Conference program

Sunday, June 24 – Arrival Day

16:00–20:00	Conference registration at Hotel Eger (Szálloda str. 1)

Monday, June 25 – First Day of the Conference

8:30–9:15	Conference registration, pick up packets and say hello
9:15–9:30	Welcome and Announcements

9:30–12:00	**Monday Morning Session** moderated by William Webb
9:30–9:50	C. Cooper: *Identities in the spirit of Ramanujan's amazing identity*
9:50–10:10	<u>C. K. Cook</u>, M. R. Bacon: *Some identities for Jacobsthal and Jacobsthal-Lucas Numbers and higher order Jacobsthal and Jacobsthal-Lucas Numbers*
10:10–10:30	<u>A. G. Shannon</u>, C. K. Cook: *Some aspects of Fibonacci polynomial congruences*
10:30–11:00	Refreshment Break
11:00–11:20	A. Bagdasaryan: *Several identities and congruences for Bernoulli numbers and polynomials*
11:20–11:40	<u>L. Somer</u>, M. Křížek: *Power digraphs modulo n are symmetric of order M if and only if M is square free*
11:40–12:00	L. Szalay: *Diophantine equations with binary recurrences associated to Brocard-Ramanujan problem*

12:00–14:00	Lunch Break

14:00–17:10	**Monday Afternoon Session** moderated by Peter Anderson
14:00–14:20	<u>H. Belbachir</u>, A. Belkhir: *Tiling approach to obtain identities for Fibonacci and Lucas numbers*
14:20–14:40	B. Balof: *Restricted tilings, coordination sequences and bijections*
14:40–15:00	A. O. Munagi: *Primary classes of compositions of numbers*
15:00–15:20	F. Mátyás: *The contribution of Professor Péter Kiss to the theory of linear recurrences*
15:20–15:50	Refreshment Break

15:50–16:10	J. C. Turner, W. J. Rogers: *A representation of the natural numbers by means of cycle-numbers, with some consequences in number theory*
16:10–16:30	J. Siurys: *A linear recurrence sequence of composite numbers*
16:30–16:50	E. Kiliç: *Generalizing two curious divisibility properties*
16:50–17:10	E. Kiliç, T. Arıkan: *Some further results on the sums of reciprocals of terms of a order-k recurring sequence*

19:00–	Evening program – Wine and cheese reception

Tuesday, June 26 – Second Day of the Conference

9:00–11:50	**Tuesday Morning Session** moderated by Andrej Dujella
9:00–9:20	W. Webb: *Recurrence equations which depend on congruence conditions*
9:20–9:40	<u>T. Komatsu</u>, F. Luca: *Some relationships between poly-Cauchy numbers and poly-Bernoulli numbers*
9:40–10:00	P. T. Young: *On the roots of the degenerate Bernoulli numbers*
10:00–10:20	R. Keskın, <u>O. Karaatlı</u>: *Integral points on the elliptic curves* $10y^2 = 5x^3 - 3x - 2$ *and* $10y^2 = 5x^3 + 3x - 8$
10:20–10:50	Refreshment Break
10:50–11:10	<u>M. Bicknell-Johnson</u>, C. P. Spears: *The golden ratio in classical maya architecture*
11:10–11:30	H. Harborth: *On h-perfect numbers*
11:30–11:50	G. Nyul: *Stirling numbers of the second kind and Bell numbers for graphs*

11:50–12:00	Conference photo

12:00–13:30	Lunch Break

13:30–16:40	**Tuesday Afternoon Session** moderated by Marjorie Bicknell-Johnson
13:30–13:50	A. Dujella: *On Hall's conjecture and related polynomial Pell's equation*
13:50–14:10	V. Petričević: *Householder's approximants and continued fraction expansion of quadratic irrationals*
14:10–14:30	A. Dujella, <u>T. Pejković</u>: *Root separation for reducible monic quartics*
14:30–14:50	K. Ozeki: *On Aczél-Haruki functional equations*
14:50–15:20	Refreshment Break
15:20–15:40	C. Mongoven: *Musical composition with multiple Fibonacci-related sequences*
15:40–16:00	<u>N. Irmak</u>, L. Szalay: *On k-periodic linear recurrences*
16:00–16:20	T. Lengyel: *On divisibility properties of some differences of Motzkin numbers*
16:20–16:40	C. Kimberling: *Fusion, Fission and Factors*

Wednesday, June 27 – Third Day of the Conference

9:00–12:50	**Wednesday Morning Session** Moderated by László Szalay
9:00–10:00	N. J. A. Sloane: *The On-Line Encyclopedia of Integer Sequences* (Edouard Lucas Invited Lecture)
10:00–10:30	Refreshment Break
10:30–10:50	<u>P. G. Anderson</u>, L. Ericksen: (p,k)-*Pell Zeckendorf arrays, I: difference patterns*
10:50–11:10	<u>L. Ericksen</u>, P. G. Anderson: (p,k)-*Pell Zeckendorf arrays, II: congruence residues, periodicities and Beatty sequences*
11:10–11:30	A. Bege, <u>Z. Kátai</u>: *Sierpinski-like triangle-patterns in Fibonomial triangles*
11:30–11:50	C. Ballot: *More on Lucas sequences and cousin sequences*

11:50–14:00	Lunch Break

14:00–15:30	**Wednesday Afternoon: Problem Session** moderated by Clark Kimberling

17:00–	Sightseeing

19:00–	Conference dinner in the castle

Thursday, June 28 – Fourth Day of the Conference

9:00–11:40	**Thursday Morning Session** moderated by Pante Stănică
9:00–9:30	A. Bérczes: *Arithmetic and geometric progressions in the solution set of Diophantine equations* (invited speaker)
9:30–9:50	S. D. Alvarado, A. Dujella, <u>F. Luca</u>: *Balancing with Fibonacci numbers*
9:50–10:10	<u>J. J. Bravo</u>, F. Luca: *Coincidences in generalized Fibonacci sequences*
10:10–10:40	Refreshment Break
10:40–11:00	K. Broughan, <u>S. Guzman</u>, F. Luca: *Perfect repdigits*
11:00–11:20	<u>M. C. Firengiz</u>, D. Tasci, N. Tuglu: *Some identities for Fibonacci and incomplete Fibonacci p-numbers via symmetric and Euler-Siedel algorithms*
11:20–11:40	<u>J. J. Alba</u>, F. Luca: *On the positive integers n satisfying the equation $F_n = x^2 + ny^2$*

11:40–13:30	Lunch Break

13:30–14:50	**Thursday Early Afternoon Session** moderated by Florian Luca
13:30–13:50	F. Luca, <u>P. Stănică</u>, A. Yalçiner: *When do the Fibonacci invertible classes modulo M form a subgroup?*
13:50–14:10	L. Hajdu, <u>T. Kovács</u>, A. Pethő, M. Pohst: *On an optimization problem for lattices*
14:10–14:30	<u>T. Kurosawa</u>, Y. Tachiya, T. Tanaka: *Algebraic relations with the infinite products generated by Fibonacci numbers*
14:30–14:50	F. Luca, <u>Y. Tachiya</u>: *Arithmetical properties of infinite products generated by Fibonacci and Lucas numbers*

14:50–15:20	Refreshment Break

15:20–17:00	**Thursday Late Afternoon Session – Section A** moderated by Ákos Pintér
15:20–15:40	P. Słanina: *Generalizations of Fibonacci polynomials and free linear groups*
15:40–16:00	F. Luca, <u>V. J. Mejía</u>: *On perfect numbers which are ratios of two Fibonacci numbers*

16:00–16:20	Gy. Péter, T. Kovács, N. Varga: *On some polynomial values of repdigit numbers*
16:20–16:40	I. Pink: *On the Diophantine equation $x^2 + d^{2l+1} = y^n$*
16:40–17:00	M. Szikszai, L. Hajdu: *On the GCD-s of consecutive terms of elliptic divisibility sequences*

15:20–17:00	**Thursday Late Afternoon Session – Section B** moderated by Emrah Kilic
15:20–15:40	Z. Cerin: *Identities for Fibonacci polynomials*
15:40–16:00	R. Wituła, E. Hetmaniok, D. Słota: *Some application of Ma, Cauchy and Ferrers-Jackson polynomials*
16:00–16:20	R. Wituła, E. Hetmaniok, D. Słota: *Sums of the powers of any order roots taken from the roots of a given polynomial*
16:20–16:40	R. Wituła, D. Słota, E. Hetmaniok: *Bridges between different known integer sequences*
16:40–17:00	R. Wituła, E. Hetmaniok, K. Kaczmarek: *Jordan numbers, Stirling numbers and sums of the powers of consecutive positive integers*

Friday, June 29 – Fifth Day of the Conference

9:00–11:50	**Friday Morning Session** moderated by Curtis Cooper
9:00–9:20	<u>C. N. Phadte</u>, S. P. Pethe: *On sequences satisfying second order non-homogeneous recurrence relations*
9:20–9:40	A. Dil: *Transformation formulas and Fibonacci numbers*
9:40–10:00	A. Egri-Nagy: *On transformation semigroups associated to Fibonacci words*
10:00–10:20	D. Terr: *Fibonacci-Pythagorean triple families*
10:20–10:50	Refreshment Break
10:50–11:10	A. Bagdasaryan: *Compositions, partitions, their generating functions and applications*
11:10–11:30	C. Pita: *Sums of powers of Fibonacci and Lucas polynomials in terms of Fibopolynomials*
11:30–11:50	T. Barrale, <u>R. Hendel</u>, M. Sluys: *The Tojaaldi sequence conjectures*

11:50–13:30	Lunch Break

13:30–16:20	**Friday Afternoon Session** moderated by Hacène Belbachir
13:30–13:50	M. Cenkci: *Some convolution identities for Bernoulli and Euler numbers*
13:50–14:10	G. Gelatti: *The Phi quadratic formula, the golden gnomon of 1/4, and cubic identities in Fibonacci-Lucas numbers*
14:10–14:30	P. Olajos: *About balancing numbers*
14:30–14:50	T. Szakács: *Multiplying balancing numbers*
14:50–15:20	Refreshment Break
15:20–15:40	<u>A. Bazsó</u>, D. Kreso, F. Luca, Á. Pintér: *On diophantine equations involving power sums and products of consecutive terms in arithmetic progression*
15:40–16:00	T. Juhász: *Group algebras and Russian roulette*
16:00–16:20	K. Liptai: *Survey on balancing numbers*

Saturday, June 30

9:00–	Excursion to Szilvásvárad