

XVIIth Conference
on Analytic Functions and Related Topics



Chelm

June 29 - July 2, 2014

CONFERENCE PROGRAM

Sunday, June 29th, 2014

- Since 10.00 Registration of conference participants
(Hotel "Kamena" - Armii Krajowej 50, Chełm)
- 12.45 - 14.00 Lunch
(Hotel "Kamena" - Armii Krajowej 50, Chełm)
- 14.30 - 14.45 Registration of conference participants - continuation
(State School of Higher Education in Chełm
- Wojsławicka 8B, Chełm)
- 14.45 - 15.00 Opening of the conference
(Wojsławicka 8B, Chełm)
- 15.00 - 15.50 Plenary lecture
- 16.00 - 16.20 Coffee break
- 16.20 - 17.10 Plenary lecture
- 18.30 - 23.00 Barbecue
(The Academic Center of International Cooperation
- Deputyczne Nowe)

Monday, June 30th, 2014

- 7.00 - 8.30 Breakfast
(Hotel "Kamena" - Armii Krajowej 50, Chełm)
- 9.00 - 10.50 Plenary lectures
- 10.50 - 11.20 Coffee break
- 11.20 - 13.15 Section talks
- 13.20 - 14.00 Lunch
(Wojsławicka 8B, Chełm)
- 14.00 - 15.05 Section talks
- 16.15 - 18.15 Chełm walking tour
- 19.30 - 23.00 Reception in the House of Art "Old Mill"
(Uher 33)

Tuesday, July 1st, 2014

- 7.00 - 8.30 Breakfast
(Hotel "Kamena" - Armii Krajowej 50, Chełm)
- 9.00 - 10.50 Plenary lectures
- 10.50 - 11.20 Coffee break
- 11.20 - 13.15 Section talks
- 13.20 - 14.00 Lunch
(Wojślawicka 8B, Chełm)
- 14.00 - 15.05 Section talks
- 16.00 - 18.30 Excursions „*Old Chalk Mine*” or “*The Chelm Museum*”
- 19.00 Dinner
(Hotel "Kamena" - Armii Krajowej 50, Chełm)

Wednesday, July 2nd, 2014

- 7.00 - 8.30 Breakfast
(Hotel "Kamena" - Armii Krajowej 50, Chełm)
- 9.00 - 10.50 Plenary lectures
- 10.50 - 11.20 Coffee break
- 11.20 - 13.15 Section talks
- 13.15 - 13.45 Poster session
- 13.45 - 14.00 Closing of the conference
- 14.00 - 14.50 Lunch
(Wojślawicka 8B, Chełm)
- 15.30 - 16.30 Excursion to the "Jagiello brewery"

**Plenary lectures, section talks and poster session
will be held at Wojślawicka 8B.**

SCIENTIFIC PROGRAM

The Conference program covers contemporary topics in complex analysis of one and several variables including:

- complex analysis and potential theory,
- elliptic partial differential equations,
- geometrical aspects of complex analysis,
- complex approximation theory,
- harmonic and quasiconformal mappings,
- generalized complex analysis,
- complex dynamical systems and fractals.

PROGRAM OF TALKS

Sunday, June 29th, 2014

Plenary lectures - room 007

Chairman: Józef Zajac

- 15.00 - 15.50 David Shoikhet: *Numerical Range of Holomorphic Mappings in Geometric Function Theory*
 16.20 - 17.10 Hiroshige Shiga: *On analytic properties of deformation spaces of Kleinian groups*

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Monday, June 30th, 2014

Plenary lectures - room 007

Chairman: David Shoikhet

- 9.00 - 9.50 Matti Vuorinen: *Looking for stability theory of quasiconformal maps*
 10.00 - 10.50 Ewa Ciechanowicz, Ivan I. Marchenko: *Deviations and strong asymptotic values of entire and meromorphic functions*

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Section talks I - room 007

Chairman: Matti Vuorinen

- 11.20 - 11.45 Toshiyuki Sugawa: *A note on trivial Beltrami coefficients*
 11.50 - 12.15 Mark Elin: *Local geometry of trajectories of parabolic type semigroups*
 12.20 - 12.45 Takao Akahori: *On the partially integrable almost CR structure*
 12.50 - 13.15 Parisa Hariri: *Some remarks on the visual angle metric*

Chairman: Toshiyuki Sugawa

- 14.00 - 14.25 Julian Ławrynowicz: *Some complex-analytical properties of lattices*
 14.30 - 14.45 Małgorzata Nowak-Kępczyk: *Complex-analytical approach to binary and ternary elements in a lattice*
 14.50 - 15.05 Renata Długosz, Edyta Leś, Agnieszka Sibelska: *A new inclusion for Baurin's families of holomorphic functions in n -circular domains*

Section talks II - room 105

Chairman: Ivan I. Marchenko

- 11.20 - 11.45 Michael Shapiro: *On a class of holomorphic mappings in \mathbb{C}^2 related to bicomplex numbers*
- 11.50 - 12.15 Ma. Elena Luna–Elizarrarás: *On a new type of conformality in four-dimensional spaces*
- 12.20 - 12.45 Bent Orsted: *Universal principles for Pohozaev identities*
- 12.50 - 13.15 Renata Długosz, Piotr Liczberski: *On separation of Bavin's families of functions holomorphic on n -circular domains of \mathbb{C}^n*

Chairman: Andriy Zagorodnyuk

- 14.00 - 14.25 Mykola V. Zabolotskyj: *Regular growth of various characteristics for entire functions of zero order*
- 14.30 - 14.55 Paulius Miškinis: *Some examples and general aspects of the fractional dynamical systems*

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Section talks III - room 002

Chairman: Jarosław Kapeluszny

- 11.20 - 11.45 Olena V. Karupu: *On properties of moduli of smoothness of conformal homeomorphisms*
- 11.50 - 12.15 Miodrag Mateljevic: *Distortion of quasiregular mappings and equivalent norms on Lipschitz-type spaces*
- 12.20 - 12.45 Sami Omar: *The Cardon and Robert Criterion for the Riemann hypothesis*
- 12.50 - 13.15 Abir Banerjee: *TBA*

Chairman: Piotr Liczberski

- 14.00 - 14.25 Monica Roşiu: *On the Residue of a Quadratic Differential on a Klein surface*
- 14.30 - 14.45 Slavko Simić: *On Lipschitz continuity for the distance ratio metric*
- 14.50 - 15.05 Piotr Wasilewski: *On deviations from polynomials of holomorphic and meromorphic functions in the unit disc*

Tuesday, July 1st, 2014

Plenary lectures - room 007

Chairman: Hiroshige Shiga

- 9.00 - 9.50 Paul Gauthier: *Universal Functions*
 10.00 - 10.50 Antoni Pierzchalski: *Conjugate Submersions*

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Section talks I - room 007

Chairman: Stanisława Kanas

- 11.20 - 11.45 Ken-ichi Sakan, Dariusz Partyka: *Heinz type inequalities for Poisson integrals*
 11.50 - 12.15 Fahreddin G. Abdullayev: *Polynomial estimations in regions of complex plane in the weighted Lebesgue space*
 12.20 - 12.45 Dariusz Partyka, Józef Zajac: *The Schwarz type inequality for harmonic mappings of the unit disc with boundary normalization*
 12.50 - 13.15 Tomasz Adamowicz: *Geometry of planar elliptic PDEs*

Chairman: Fahreddin Abdullayev

- 14.00 - 14.25 Cevahir D. Gün, Fahreddin G. Abdullayev: *On an analogue of Bernstein-Walsh-type inequalities in the weighted Bergman space*
 14.30 - 14.45 N. Pelin Özkartepe, Fahreddin G. Abdullayev: *Bernstein-Walsh-type inequalities on the piecewise-smooth regions of complex plane*
 14.50 - 15.05 Inna V. Kalchuk, U.Z. Grabova: *On approximation of functions from the classes $L_{\beta,1}^{\psi}$ by the threeharmonic integrals of Poisson*

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Section talks II - room 105

Chairman: Antoni Pierzchalski

- 11.20 - 11.45 Andriy Zagorodnyuk: *Algebra of symmetric analytic functions on ℓ_1*
 11.50 - 12.15 Andrey L. Targonskii: *Extremal problem on $(2n, 2m - 1)$ -system points on the rays*
 12.20 - 12.45 Piotr Drygaś: *\mathbb{R} -linear problem with derivatives for doubly periodic functions and its application*
 12.50 - 13.15 Mariana R. Mostova, Mykola V. Zabolotskyj: *Logarithmic derivative and angular density of zeros of entire functions of zero order*

Chairman: Dariusz Partyka

- 14.00 - 14.25 Małgorzata Michalska, Andrzej Michalski: *Difference of two composition operators on some spaces of holomorphic functions*
- 14.30 - 14.45 Sergii V. Sharyn: *Gâteaux differentiability of polynomial test and generalized functions*
- 14.50 - 15.05 Anna Tatarczak, Stanisława Kanas: *Properties of orthogonal polynomials and typically real functions related to generalized Koebe function*

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Section talks III - room 002

Chairman: Roman Dwilewicz

- 14.00 - 14.25 Richard Bonner: *How closely do Sobolev semi-norms determine an analytic function?*
- 14.30 - 14.45 Milena Balcerzak, Małgorzata Urlińska: *Hurst exponent in polish stock market predictability*
- 14.50 - 15.05 Sanjay Kumar Bansal: *Differential subordination results for analytic functions in the upper half-plane using generalized fractional calculus operator*

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Wednesday, July 2nd, 2014

Plenary lectures - room 007

Chairman: Julian Ławrynowicz

- 9.00 - 9.50 Anatoly Golberg: *Weak conformality in higher dimensions*
- 10.00 - 10.50 Roman Dwilewicz: *Holomorphic Extensions of Functions for Unbounded Domains in C^n*

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Section talks I - room 007

Chairman: Anatoly Golberg

- 11.20 - 11.45 Vladimir V. Mityushev: *R-linear problem and its applications*
- 11.50 - 12.15 R.O. Ayinla, Timothy O. Opoola: *New Results on Spiralike Functions*
- 12.20 - 12.45 Sachiko Hamano: *Variation formulas for principal functions and application to simultaneous uniformization and reproducing kernels on Riemann surfaces*
- 12.50 - 13.15 Paweł Jarczyk: *Neutral coated inclusions of finite conductivity*

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Section talks II - room 105

Chairman: Ken-ichi Sakan

- 11.20 - 11.45 Arturo Fernández: *Schottky theorem for algebroid functions*
 11.50 - 12.15 Ikkei Hotta: *L^d -Loewner chains with quasiconformal extensions*
 12.20 - 12.45 Raimo Näkki: *How homogeneous is the Swiss Cheese?*
 12.50 - 13.15 Władysław Rompała: *Dirichlet problem by Martin compactification method*

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POSTER SESSION

Milena Balcerzak,
Małgorzata Urlińska

Hurst exponent in polish stock market predictability

Jacek Dziok

The Fekete-Szegő problem in some class of analytic functions

Grigori Giorgadze

On the solvability criterion of Riemann-Hilbert boundary value problem with piecewise-constant coefficients in quadratures

Yuri I. Kharkevych,
Mykola E. Korenkov,
Józef Zajac

About asymptotic of Weierstrass functions $\sigma(z)$, $\zeta(z)$

Joanna Kowalczyk,
Edyta Leś,
Janusz Sokół

Radius problems in a certain subclass of close-to-convex functions

Poster session will be held at Hall (Wojśławicka 8B).