

International Conference
"Complex Analysis, Potential Theory and Applications"

Program

Monday, 19 August

MORNING SESSION

10.30 – 10.45 **Opening**

10.45 – 12.00 **Sergiy Plaksa, Yuri Zelinskii** (Kyiv, Ukraine), **Anatoliy Golberg** (Holon, Israel)

Promarz Melikovich Tamrazov: mathematical ideas and results

AFTERNOON SESSION

Chairman – Professor V. V. Goryainov

14.30 – 15.00 **Vladimir Ryazanov** (Donetsk, Ukraine)

The Dirichlet problem for the general Beltrami equations

15.00 – 15.20 **Ruslan Salimov** (Donetsk, Ukraine)

Hölder continuity of ring Q -homeomorphisms with respect to p -module

15.20 – 15.40 **Artem Yefimushkin** (Donetsk, Ukraine)

On the Riemann-Hilbert problem for the Beltrami equations

15.40 – 16.00 **Olena Afanasjeva** (Donetsk, Ukraine)

Mappings with module conditions in metric spaces with measures

16.00 – 16.30 **Coffee break**

Chairman – Professor V. I. Ryazanov

16.30 – 17.00 **Tahir Aliyev** (Gebze, Turkey)

A refined Schwarz inequality on the boundary

17.00 – 17.30 **Yevgen Sevostyanov** (Donetsk, Ukraine)

Analog of Miniowitz theorem for some class of mappings with non-bounded characteristics

17.30 – 17.50 **Olga Trofymenko** (Donetsk, Ukraine)

The properties of functions satisfying mean value equations

17.50 – 18.10 **Veronika Vasylianska** (Donetsk, Ukraine)

Eisenstein type integrals on sphere and their generalizations

18.10 – 18.30 **Irina Savostyanova** (Donetsk, Ukraine)

Local analogues of the hemispherical transform

Tuesday, 20 August

MORNING SESSION

Chairman – Professor Tahir Aliyev

- 9.30 – 10.00 **Yurii Trokhimchuk** (Kyiv, Ukraine)
On some latest results in complex analysis
- 10.00 – 10.30 **Bodo Dittmar** (Halle/Saale, Germany)
Sums of reciprocal eigenvalues in doubly connected domains
- 10.30 – 11.00 **Evgeniy Dolgenko** (Moscow, Russia)
Estimates for modulus of continuity of conformal mappings of Jordan domains
- 11.00 – 11.30 **Coffee break**

Chairman – Professor Jamal Mamedkhanov

- 11.30 – 12.00 **Victor Goryainov** (Volzhsky, Russia)
Semigroups of conformal mappings with given fixed points
- 12.00 – 12.30 **Petr Borodin** (Moscow, Russia)
Density of simple partial fractions in function spaces
- 12.30 – 13.00 **Victor Buslaev** (Moscow, Russia)
On multipoint version of Shtal's theorem

AFTERNOON SESSION

Chairman – Professor Massimo Lanza de Cristoforis

- 14.30 – 15.00 **Andrey Pokrovskii** (Kyiv, Ukraine)
On the approximation of continuous functions on a segment by polynomials with a sign-sensitive weight
- 15.00 – 15.30 **Vladimir Kisil** (Leeds, England)
The real and complex techniques in harmonic analysis from the covariant transform
- 15.30 – 16.00 **Oleg Gerus** (Zhitomir, Ukraine)
On the Zygmund-type estimate for a quaternion singular Cauchy integral
- 16.00 – 16.30 **Coffee break**

Chairman – Professor V. V. Kisil

- 16.30 – 17.00 **Massimo Lanza de Cristoforis** (Padova, Italy)
Simple eigenvalues for the Laplace operator in a domain with a small hole
- 17.00 – 17.30 **Sergiy Plaksa** (Kyiv, Ukraine)
Integral theorems for monogenic functions in an infinite-dimensional space with a commutative multiplication
- 17.30 – 17.50 **Serhii Gryshchuk** (Kyiv, Ukraine)
On power series approach for a boundary value problem for monogenic functions of biharmonic variable in a disk
- 17.50 – 18.10 **Vitalii Shpakivskyi** (Kyiv, Ukraine)
On logarithmic residue of monogenic functions in a three-dimensional harmonic algebra with the two-dimensional radical
- 18.10 – 18.30 **Roman Pukhtaievich** (Kyiv, Ukraine)
Monogenic functions in a finite-dimensional semi-simple algebra

Wednesday, 21 August

MORNING SESSION

Chairman – Professor Yu. B. Zelinskii

- 9.30 – 10.00 **Lev Aizenberg** (Bar-Ilan, Israel)
Separation of singularities of holomorphic functions
- 10.00 – 10.30 **Nikolai Vasilevski** (Mexico City, Mexico)
Commutative algebras of Toeplitz operators on the Bergman space
- 10.30 – 11.00 **Arturo Fernández Arias** (Madrid, Spain)
Algebroid functions with essential singularities
- 11.00 – 11.30 **Coffee break**

Chairman – Professor K. G. Malyutin

- 11.30 – 12.00 **Jamal Mamedkhanov** (Baku, Azerbaijan)
Local polynomial approximation on arcs in the complex plane
- 12.00 – 12.30 **Juhani Riihenta** (Joensuu, Finland)
Remarks on separately subharmonic functions
- 12.30 – 13.00 **Anatoly Golberg** (Holon, Israel)
On removability of singularities for discrete open mappings with controlled p -module

AFTERNOON SESSION

Chairman – Professor I. E. Chigikov

- 14.10 – 14.40 **Sergey Favorov** (Kharkiv, Ukraine)
Generalized convexity, Blaschke-type condition in unbounded domains, and application in operator theory
- 14.40 – 15.10 **Konstantin Malyutin** (Sumy, Ukraine)
The problem of multiple interpolation in the class of entire functions of zero order
- 15.10 – 15.40 **Benharrrat Belaïdi** (Mostaganem, Algeria)
Some properties of two linearly independent meromorphic solutions of second order linear differential equations
- 15.40 – 16.00 **Liudmyla Radchenko** (Kharkiv, Ukraine)
On subharmonic functions in the unit ball growing near a part of the boundary
- 16.00 – 16.30 **Coffee break**

Chairman – Professor S. Yu. Favorov

- 16.30 – 17.00 **Igor Chigikov** (Lviv, Ukraine)
Bounded uniform approximation of subharmonic functions by logarithms of moduli of analytic ones
- 17.00 – 17.30 **Oleg Skaskiv, Andrii Kuryliak** (Lviv, Ukraine)
Baire categories and Wiman's inequality for the analytic functions
- 17.30 – 17.50 **Mariia Voitovych** (Lviv, Ukraine)
On the growth of the Cauchy integral

- 17.50 – 18.10 **Maryana Kravec** (Lviv, Ukraine)
The minimum modulus of analytic functions in the unit disk
- 18.10 – 18.30 **Nadiya Semochko** (Lviv, Ukraine)
An estimates of a fractional counterpart of the logarithmic derivative of a meromorphic function
- 19.00 **Conference dinner**

Thursday, 22 August

MORNING SESSION

Chairman – Professor V. V. Starkov

- 9.30 – 10.00 **Yuri Zelinskii** (Kyiv, Ukraine)
Geometric problems of complex and hypercomplex analysis
- 10.00 – 10.30 **Vladimir Sharko** (Kyiv, Ukraine)
Topological equivalence of harmonic polynomials
- 10.30 – 11.00 **Vladimir Shlyk** (Vladivostok, Russia)
Geometrical properties of compacts, generating the rectangle normal domains in the space
- 11.00 – 11.30 **Coffee break**

Chairman – Professor V. A. Shlyk

- 11.30 – 12.00 **Victor Starkov** (Petrozavodsk, Russia)
Cone condition and α -accessible domains
- 12.00 – 12.20 **Ekaterina Ganenkova** (Petrozavodsk, Russia)
Ambiguous points of functions defined in domains in $\mathbb{R}^n$
- 12.20 – 12.40 **Kira Amozova** (Petrozavodsk, Russia)
Alpha-accessible domains in $\mathbb{R}^n$, a non-smooth case
- 12.40 – 13.00 **Petr Pugach** (Vladivostok, Russia)
Locally piecewise linear approximation in the weighted Sobolev spaces

AFTERNOON SESSION

Chairman – Professor O. S. Limarchenko

- 14.30 – 15.00 **Jaremia Rushchitsky** (Kyiv, Ukraine)
Toward the linear and nonlinear surface elastic waves: mathematical features of analysis
- 15.00 – 15.30 **Oleg Limarchenko, E.A. Semenovich** (Kyiv, Ukraine)
Behavior of reservoir with liquid on pendulum suspension
- 15.30 – 15.50 **Viktoriya Gubskaya** (Kyiv, Ukraine)
Influence of mass ratio of liquid and reservoir on development of nonlinear modes of oscillation under harmonic excitation
- 15.50 – 16.10 **Aleksander Konstantinov** (Kyiv, Ukraine)
The Faraday generalized problem for reservoir with liquid, which performs inclined motion

16.10 – 16.40	Coffee break
16.40 – 17.00	Igor Ruzhitskiy (Kyiv, Ukraine) <i>Investigation of dynamics of ellipsoidal reservoir with free surfaced liquid</i>
17.00 – 17.20	Alyona Didkovskaya (Kyiv, Ukraine) <i>Comparison of liquid oscillations in reservoir for positive and negative lengths of pendulum suspension</i>
17.20 – 17.40	Aleksey Timokhin (Kyiv, Ukraine) <i>Bifurcation modes of oscillations of pipeline with rapidly flowing liquid</i>
17.40 – 18.00	Vladimir Limarchenko (Kyiv, Ukraine) <i>Oscillations of pipeline with liquid in a vicinity of critical velocities of liquid flow</i>
18.00 – 18.20	G.V. Sandrakov (Kyiv, Ukraine) <i>Averaging asymptotics of solutions to the Navier–Stokes equations</i>

Friday, 23 August

MORNING SESSION

Chairman – Professor A. K. Bakhtin

9.30 – 10.00	Vladimir Vasilyev (Lipetsk, Russia) <i>Pseudodifferential operators and equations in a multidimensional cone</i>
10.00 – 10.30	Boris Peleshenko (Dnepropetrovsk, Ukraine) <i>On traces of functions from spaces of generalized Riesz's potentials</i>
10.30 – 10.50	Mariia Volkova (Odessa, Ukraine) <i>Interpolation by entire functions from de Branges's spaces</i>
10.50 – 11.10	Elena Olefir (Odessa, Ukraine) <i>Linear-fractional transformations of inner matrix-valued functions and their application</i>
11.10 – 11.30	A.V. Anop, Aleksandr Murach (Kyiv, Ukraine) <i>On elliptic problems in Hörmander spaces</i>
11.30 – 12.00	Coffee break

Chairman – Professor Ju. B. Zelinskiy

12.00 – 12.30	Volodymyr Maslyuchenko (Chernivtsi, Ukraine) <i>Uniform distance to the space of continuous functions</i>
12.30 – 13.00	Aleksandr Bakhtin (Kyiv, Ukraine) <i>On a Dubinin's problem</i>
13.00 – 13.20	Maxim Tkachuk (Kyiv, Ukraine) <i>Mizel's problem on a circle</i>
13.20 – 13.40	Bogdan Klishchuk (Kyiv, Ukraine) <i>Theorems on a fixed point for multivalued mappings</i>
13.40 – 14.00	Yaroslav Zabolotnyi (Kyiv, Ukraine) <i>Some estimations of the maximum of product of inner radiuses of non-overlapping domains</i>

AFTERNOON SESSION

Chairman – Professor V.K. Maslyuchenko

- 15.00 – 15.30 **Andriy Bomba, Olena Hladka** (Rivne, Ukraine)
Methods of quasiconformal mappings and splittings for solutions of non-linear boundary value problems
- 15.30 – 15.50 **O. W. Karupu** (Kyiv, Ukraine)
On some finite difference boundary properties of conformal mappings
- 15.50 – 16.10 **Olena Karlova** (Chernivtsi, Ukraine)
On extension of Baire mappings and Lebesgue α -triples
- 16.10 – 16.30 **A.I. Gerasin** (Kyiv, Ukraine)
A generalization of Crofton formula
- 16.30 – 16.50 **Iryna Vygovska** (Kyiv, Ukraine)
Criteria of convexity in the Euclidean space
- 16.50 – 17.00 **Closing**