The XIth Romanian-Finnish Seminar

Alba Iulia, Romania, August 14–19, 2008

PROGRAM

Thursday, August 14th, 2008

14:45–15:15	***Opening Ceremony***	Welcome message: **Ioan Achim Moise**, Rector of "1 Decembrie 1918" University of Alba Iulia Address of **Marius Iosifescu**, Vice-President of the Romanian Academy
15:15–16:00	**Olli Martio**	Quasiminimizers - calculus of variation and potential theory

Coffee

16:25–17:10	**Zoltan Balogh**	Gromov's dimension comparison and fractal geometry on Carnot groups
17:15–18:00	**Vlad Marković**	Biholomorphic maps between Teichmüller spaces
18:05–18:50	**Mihai Pascu**	On a conjecture of Laugesen and Morpurgo

20:30 **Opening Reception**

Friday, August 15th, 2008

09:00–09:45 **Vladimir Ryazanov**   Moduli in the modern mapping theory
09:55–10:40 **Heinrich Begehr**   Polyharmonic Green functions and boundary value problems

C o f f e e

11:05–11:50 **Kohur GowriSankaran**   Multiply superharmonic functions: a consequence of Bocher theorem
12:00–12:45 **Pertti Mattila**   Removable sets of Lipschitz harmonic functions and singular integrals

L u n c h

15:00–15:45 **Anton Thalmaier**   Brownian motion on Jordan curves and stochastic analysis on the diffeomorphism group of the circle

C o f f e e

Section 1A

Analytic functions of one complex variable: Univalence

16:10–16:55 **Gabriela Kohr**   Subordination chains and generalized parametric representation in several complex variables
17:05–17:50 **Petru T. Mocanu**   On a subclass of starlike functions with bounded turning
18:00–18:30 **Teodor Bulboaca**   Modified integral operators preserving double subordinations
18:40–19:10 **Adriana Cătaş**   Differential sandwich theorems for certain subclasses of analytic functions involving multiplier transformations
19:20–19:50 **Alina Alb-Lupaş**   Certain differential subordinations using Sălăgean and Ruscheweyh operators

Section 1B

Analytic functions of one complex variable: Other subjects

16:10–16:55	**Rauno Aulaskari**	On α-normal and α-Yosida functions
17:05–17:50	**Ilie Bârză**	One way to look at analysis on non orientable surfaces
18:00–18:30	**Carmen Boloşteanu**	The Hilbert-Riemann problem on the Möbius strip

Section 2

Quasiconformal mappings and Teichmüller spaces

16:10–16:55	**Jang-Mei Wu**	On manifolds with a quasiconformal structure of small dilatation
17:05–17:50	**Melkana Brakalova**	Conformality of a μ-homeomorphism at a point
18:00–18:45	**Peter A. Hastö**	Gromov hyperbolic equivalence of the hyperbolic and quasihyperbolic metrics in Denjoy domains
18:55–19:25	**Riku Klén**	On hyperbolic type metrics

Section 3

Several complex variables

16:10–16:55	**Tejinder Neelon**	Restrictions of formal power series and infinitely differentiable functions to algebraic surfaces
17:05–17:50	**Romi Shamoyan**	On some inequalities for multifunctional Bergman, Hardy, Bloch and BMOA classes in higher dimension and some new spaces for holomorphic functions in the unit ball
18:00–18:45	**Andrei Baran**	The dualizing complex revisited

Section 4

Potential theory

16:10–16:55	**Gheorghe Bucur**	Resistance forms on a set, I
17:05–17:50	**Nicu Boboc**	Resistance forms on a set, II
18:00–18:30	**Khaled Kefi**	Comparison between the Mountain Pass theorem and the Ekeland's variational principle for some eigenvalue problem in Sobolev spaces with variable exponent
18:40–19:10	**Ileana Bucur**	A Riemann approach for Lebesgue integral

Section 5

Functional analytical methods in complex analysis

16:10–16:40	**Gabriel Prajitura**	Irregular vectors for composition operators
16:50–17:20	**Aurelian Gheondea**	Analytic Hermitian kernels
17:30–18:00	**Matteo Dalla Riva**	A functional analytic approach for a singularly perturbed nonlinear traction problem in linearized elastostatics

Saturday, August 16th, 2008

09:00–09:45	**Matti Vuorinen**	Topics in quasiconformal mappings
09:55–10:40	**David Herron**	BiLipschitz homogeneity, inner diameter distance and quasiconformal and Riemann mappings

Coffee

11:05–11:50	**John Lewis**	On a Liouville type theorem for harmonic maps to convex spaces via Markov chains
12:00–12:45	**Jeremy Tyson**	Lipschitz, Hölder and Sobolev surjections from Euclidean cubes

Lunch

15:00–15:45	**Gerald Trutnau**	On the generator of a right-continuous Markov process

Coffee

Section 1A

Analytic functions of one complex variable: Univalence

16:10–16:55	**Gheorghe Oros**	New results related to Bernardi integral operator
17:05–17:35	**Grigore Ştefan Sălăgean**	Convolutions on certain classes of functions with bounded turning
17:45–18:15	**Daniel Breaz**	Univalence properties for a general integral operator
18:25–18:55	**Nicoale Pascu**	Univalence criteria for analytic functions defined in non-convex domains
19:05–19:35	**Mugur Acu**	An integral operator on meromorphic functions

Section 1B

Analytic functions of one complex variable: Other subjects

16:10–16:55	**Timo Erkama**	Cycles of quadratic polynomials
17:05–17:50	**Dorin Ghişa**	Computer experimentation with Blaschke product mappings

Section 2

Quasiconformal mappings and Teichmüller spaces

16:10–16:55	**Mihai Cristea**	Open, discrete mappings having local ACL^n inverses
17:05–17:50	**Pekka Pankka**	Slow mappings of finite distorsions
18:00–18:45	**Marcelina Mocanu**	Regularity properties of Orlicz-Sobolev functions on metric measure spaces
18:55–19:25	**Victoria Stanciu**	Normal and compact families of finite length distortion homeomorphisms

Section 3

Several complex variables

16:10–16:55	**Yuri Zelinskii**	Linearly convex complex analysis
17:05–17:50	**Peter Dovbush**	Normality and P-point sequences
18:00–18:45	**Eugen Mihăilescu**	Complex dynamics on higher dimensional fractals

Section 4

Potential theory

16:10–16:55	**Sirkka-Liisa Eriksson**	Hyperbolic harmonic functions and their functions theory
17:05–17:35	**Eugen Popa**	Extreme points in convex envelopes of orbits of semidynamical systems
17:45–18:15	**Corneliu Udrea**	The convex functions: compactness and uniform convergence
18:25–18:55	**Natalia Zorii**	On interior capacities of condensers

Section 5

Functional analytical methods in complex analysis

16:10–16:40	**Jussi Laitila**	Weighted composition operators on analytic vector-valued function spaces
16:50–17:20	**Vasile Neagu**	On some perturbations of singular integral operators
17:30–18:00	**Luminita Lemnete-Ninulescu**	An operator-valued trigonometric moment problem
18:05–18:35	**Irina Meghea**	On some perturbed variational principles. Connexions and applications.

Sunday, August 17th, 2008

Location: Conference hall of "Steaua Ariesului" Complex in Albac

10:30–11:15	**Marius Mitrea**	Complex analysis, singular integrals and geometric measure theory
11:15	***Round Table***:	Recent trends in complex analysis and related topics

Excursion and conference dinner

Monday, August 18th, 2008

09:00–09:45 **Ilpo Laine**   Nevanlinna theory and difference operators
09:55–10:40 **Klaus-Dieter Semmler**   Hyperbolic polygons, Fuchsian groups, and Helling matrices

C o f f e e

11:05–11:50 **Maria Karmanova**   Geometric measure theory on metric structures
12:00–12:45 **Turgay Kaptanoglu**   Harmonic Besov and Bloch spaces on the unit ball

L u n c h

15:00–15:45 **Arturo Fernandez Arias** On the periods of harmonic and meromorphic forms on Klein surfaces

C o f f e e

Section 1A

Analytic functions of one complex variable: Univalence

16:10–16:55 **Stanislawa Kanas**   On conformal representations of the interior of an ellipse
17:05–17:35 **Eugen Drăghici**   Integral operators in the complex plane and uniqueness theorems concerning their transformations
17:45–18:15 **Virgil Pescar**   On univalence of some integral operators
18:25–18:55 **Cornel Pintea**   A proof of a univalent criterion by Noshiro, Warschawski, Wolff by means of h-monotone operators
19:05–19:35 **Allu Vasudevarao**   Regions of variability for certain classes of univalent functions

Section 1B

Analytic functions of one complex variable: Other subjects

16:10–16:55	**Shigeyasu Kamiya**	Complex hyperbolic triangle groups
17:05–17:50	**Risto Korhonen**	Painlevé type difference equations and finite-order meromorphic solutions
18:00–18:30	Monica Roşiu	Local trajectories on Klein surfaces

Section 2

Quasiconformal mappings and Teichmüller spaces

16:10–16:40	**Antti Rasila**	On boundary behavior of harmonic functions
16:50–17:20	**Anatoly Golberg**	New smoothness conditions for quasiconformal mappings
17:30–18:00	**Pekka Alestalo**	Approximation and extension of bilipschitz maps
18:10–18:40	**Emil Saucan**	Quasiregular mappings and PL differential geometry
18:50–19:20	**Kurt Falk**	Hyperbolic manifolds with dimension gap

Section 3

Several complex variables

16:10–16:55	**Irina Dmitrieva**	Vector boundary Riemann problems on compact surfaces and their applications in the algebraic functions theory
17:05–17:50	**Adrian Constantinescu**	Some grafts of complex affine plane. Convergence and Noetherianity
18:00–18:45	**Cezar Joiţa**	Extending Kähler metrics from subvarieties

Section 4

Potential theory

16:10–16:55	**Mounir Bezzarga**	Continuous semidynamical systems and deterministic semigroups on L^p
17:05–17:50	**Serban Costea**	Conductor inequalities and criteria for Sobolev-Lorentz two-weight inequalities
18:00–18:30	**Emil Moldoveanu**	On the monotony operator in a space of trajectories

Section 5

Functional analytical methods in complex analysis

16:10–16:40	**Dumitru Gaşpar**	Hilbert modules of analytic functions and prediction of multivalued stationary processes
16:50–17:20	**Ilie Valusescu**	On periodic estimation in complete correlated actions
17:30–18:00	**Pastorel Gaşpar**	Stochastic processes and sesquianalytic operator valued kernels
18:10–18:40	**Loredana Ciurdariu**	Hyponormal and p-hyponormal operators on pseudo-Hilbert spaces

Tuesday, August 19th, 2008

09:00–09:45	**Ilkka Holopainen**	p-harmonic functions on negatively curved spaces
09:55–10:40	**Massimo Lanza de Cristoforis**	Singular perturbation problems in potential theory: a functional analytic approach

C o f f e e

11:05–11:50	**Raimo Näkki**	Harmonic measure, boundary accessibility and quasiconformal mappings

L u n c h

Section 1A

Analytic functions of one complex variable: Univalence

12:00–12:30	**Olubunmi A. Fadipe-Joseph**	The Schwarzian derivative and univalent functions theory
12:35–13:05	**Abiodun T. Oladipo**	On a subclass of univalent functions
15:00–15:30	**D.O. Makinde**	On some properties of univalent functions

Section 2

Quasiconformal mappings and Teichmüller spaces

15:00–15:45	**Maria Karmanova**	Geometry of Carnot–Carathéodory spaces and applications

C o f f e e

16:10–16:55	**Maarit Jarvenpaa**	Visibility and fractal percolation
17:05–17:35	**Anca Andrei**	Some results concerning the behaviour of geometrically quasiconformal mappings in Ahlfors regular spaces
17:45–18:15	**Serafima Cerchez**	The direct products of quasisymmetric homeomorphisms