

NATO ADVANCED RESEARCH WORKSHOP
TOPICS IN ANALYSIS AND ITS APPLICATIONS

Yerevan, Armenia, September 22 25, 2002

Announcement

The main organisers are

The Russian Academy of Natural Sciences (RANS)
The International Society for Analysis, its Applications and Computation (ISAAC)

Objectives

**Scientific exchange reflecting on and co-ordinating of new developments in complex analysis
and related topics under particular viewpoint of applications.**

I. Co-Directors

NATO-country co-director:
Bekehr Heinrich

I. Math. Inst., Free University Berlin,
Arnimallee 3, 14195 Berlin, Germany

Partner-country co-director:
Barseghyan Grigor

Institute of Mathematics of Acad. of Sci. of Armenia,
Bagramian 24-b, 375019 Yerevan, Republic of Armenia

II. Organizing Committee

Bekehr H.

I. Math. Inst., FU Berlin, (Germany)

Barseghyan G.
Chidume Ch.
Obolashvili E.

Inst. Math. Acad. Sci. (Armenia),
ICTP (Italy)
Inst. Math. Acad. Sci. Georgia (Georgia)

III. Key speakers:

Andreian Cazacu
Aulaskary R.
Bekehr H.
Bergweiler W.
Dubinskii J.
Dzhuraev A.
Escassut A.
Jaiani G.

Bucharest University (Romania)
Joensuu University (Finland)
I. Math. Inst., FU Berlin (Germany)
Math. Sem., CAU Kiel (Germany)
Moscow Phys-Eng. Inst. (Russia)
Inst. Math. Acad. Sci. (Tadjikistan)
University Paris IV (France)
Tbilisi State University (Georgia)

Kondratyuk A.
Obolashvili E.
Shahgholian H.
Tamrazov P.
Tovmasian N.
Wong Man-Wah

Lviv National University (Ukraine)
Tbilisi University (Georgia)
The Royal Inst. of Tech. (Sweden)
Inst. Math. Acad. Sci. (Ukraine)
Yerevan State Ing. Univ. (Armenia)
York University (Canada)

IV. There will be the following group of discussions:

Complex Variables and Partial Differential Equations,

(organizers: Begehr H., Dzuraev A., Tovmasyan N.)

Classes of Analytic Functions

(organizer: Aulaskary R.)

Quasiconformal mappings and related topics.

(Organiser: Andreian-Cazacu C.)

Elliptic complex Differential Equations

(Organisers: Begehr H., Jaiani G., Obolashvili E.)

Generalised analytic functions

(Organisers: Escassut A., Malonek H.)

Geometric and Global Partial Differential Equations

(Organisers: Markovich P., Shahgholian H.)

Ordinary Complex Differential Equations

(Organiser: Laine I., Mohonko I., Rossy J.)

Potential theory

(Organisers: Martio O., Tamrazov P.)

Nonlinear Functional Analysis

(Organisers: Chidume Ch.)

Value distribution and complex dynamics

(organisers: Bergweiler W., Favorov S., Kondratyuk A., Yang C.C.)

There will be also a special round table for discussion of

A new strategy in the study of ordinary differential equations basing on a new concept of catastrophe lines”

(organiser: Barsegian G.)

V. Local Organizing Committee:

Chair: R. Melik-Ogandjanian (President of Armenian Branch of the Russian Academy of Natural Sciences- RANS), G. Barsegian (RANS), N. Engibarjan (NASA), H. Kazarian (Yerevan, St. Univ.), H. Marandjian (RANS), A. Nersessian (NASA), N. Tovmasian (NASA), E. Vardanian (RANS)

VI. Contributions:

The workshop will provide also additional lectures, contributed presentations, posters. Lectures will be in English as well as in Russian. Abstracts should be prepared in AmsLatex or Latex format. Workshop proceedings of selected contributions is being planned to be published in NATO SCIENCE PUBLICATIONS, by Kluwer”.

VII. Registration desk and main place of the conference:

Registration will be in Hotel of Yerevan State University”, September 21-22, 2002. The main part of talks will be at the same place. Address: Mashtotz str. 58, Yerevan.

VIII. Hotel Reservation:

A restricted number of rooms will be available in Hotel of Yerevan State University for participants: up to US\$ 45 for two persons (including breakfast).

Also local organizing committee can hire rooms in hotels **Yerevan”**, **Armenia”**, **Hy business”**, **Hrazdan”**, **Aviatrans”**, **Ani”** which offer deluxe appartements \$110-400 per person, and \$130-400 for two persons and also they offer economy class apartments (rooms) ~ \$ 40-60 per person, \$ 60-80 for two persons, \$ 80-90 for three persons. For hiring hotel please contact in advance with local organizing committee: bars@netsys.am

IX. Transportation:

There is a bus service from Zvartnotz” international Airport to Yerevan. But organizers will pick up participants from the Airport and convey them to the registration desk. Please inform in advance about your arrival.

X. E-mail service:

will be available in Hotel of Yerevan State University”, in Inst. of Mathematics, in Inst. of Mechanics

XI. Deadlines:

Registration Form: by September 1, 2002 ; Submission of abstracts: by September 1, 2002; Hotel Reservation by September 1, 2002.

XII. Contact :

Registration and inquires should be send (preferably by e-mail) to

Sarkisian Alla

Address: Institute of Mathematics of National Academy of Sciences of Armenia, 24-b Marshal
Bagramian ave., 375019 Yerevan, Republic of Armenia;

E-mail: bars@netsys.am; Tel.: 374 1 483120; Fax: 374 1 422422.

REGISTRATION FORM

Name (Mr./Mrs., First Name, Middle Initial, Last Name):

Title (Prof., Dr., M. Sc., ...):

Institute, University:

Address:

State/Country:

Email:

I intend (not intend) to deliver a talk (to present a poster):

I intend to participate at discussion group:

Title, Authors, Who makes the presentation, Abstract (in AmsLatex or Latex format).

INFORMATION SHEET

SA (PST. ARW. 979094) 6770/FP

TOPICS IN ANALYSIS AND ITS APPLICATION

Director from NATO country

Heinrich Begehr, Prof., I. Math. Inst, FU Berlin, Arnimallee 3,
14195 Berlin, Germany,
Tel.: ++49-30-838-75436
Fax: ++49-30-838-75403

Director from Partner country

Grigor Barseghyan, Prof., Inst. Math., Acad. Sci. Armenia, Bagramian 24b,
375014 Yerevan, Armenia

Meeting venue

Hotel of Yerevan State University, Mashtotz Str. 58, 375019 Yerevan, Armenia

Dates of meeting

September 22-25, 2002

Objective of the ARW

Discussion of new developments and trends in analysis from view point of complex analysis and related fields observing applications to ordinary and partial differential equations and mathematical physics, founding new international co-operations between scientists including young researchers.

Main presentations

The following topics will be discussed in working groups

Complex Variables and Partial Differential Equations

(organizers: Begehr H., Dzuraev A., Tovmasyan N.)

Classes of Analytic Functions

(organizer: Aulaskary R.)

Quasiconformal mappings and related topics

(Organiser: Andreian-Cazacu C.)

Elliptic complex Differential Equations

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Generalised analytic functions

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Nonlinear Functional Analysis

(Organisers: Chidume Ch.)

Value distribution and complex dynamics

(organisers: Bergweiler W., Favorov S., Kondratyuk A., Yang C.C.)

A new strategy in the study of ordinary differential equations basing on a new concept of catastrophe lines

(organiser: Barsegian G.)

Key speakers and their affiliations

Andreian Cazacu C.

Aulaskary R.

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