

**THE SECOND INTERNATIONAL SCHOOL-SEMINAR  
"NONLINEAR ANALYSIS AND EXTREMAL PROBLEMS"**

June 28 - July 4, 2010, Irkutsk, Russia

**Organizers**

Institute for System Dynamics and Control Theory SB RAS

Sobolev Institute of Mathematics SB RAS

Institute of Mathematics and Mechanics UB RAS

**With the support of**

Russian Foundation for Basic Research

**PROGRAM COMMITTEE**

Chairman of the committee:

A.A. Tolstonogov (Russia, Irkutsk)

Vice-chairman of the committee:

V.A. Dykhta (Russia, Irkutsk)

Members of the committee:

C. Bardos (France)

A. Bressan (USA)

Y. Chen (China)

A.D. Ioffe (Israel)

G. Volansky (Israel)

A. Yu. Alexandrov (Russia, St. Petersburg)

G.V. Demidenko (Russia, Novosibirsk)

A.V. Karapetyan (Russia, Moscow)

I.V. Melnikova (Russia, Yekaterinburg)

B.T. Polyak (Russia, Moscow)

A.N. Seseikin (Russia, Yekaterinburg)

N.A. Sidorov (Russia, Irkutsk)

A.S. Strekalovskiy (Russia, Irkutsk)

I.A. Taymanov (Russia, Novosibirsk)

E.L. Tonkov (Russia, Izhevsk)

V.M. Tikhomirov (Russia, Moscow)

V.N. Ushakov (Russia, Yekaterinburg)

I.A. Finogenko (Russia, Irkutsk)

A.V. Fursikov (Russia, Moscow)

A.G. Chentsov (Russia, Yekaterinburg)

**ORGANIZING COMMITTEE**

Chairman of the committee: A. V. Sinitsyn

Scientific secretary: A. A. Lempert

Members of the committee: A. L. Kazakov

R. I. Kozlov

A. A. Kosov

A. A. Scheglova

E. I. Semenov

A. V. Orlov

V. A. Shelekhov

### The main topics of the conference

- nonlinear analysis and its applications;
- dynamical systems ;
- evolution equations and partial differential equations;
- calculus of variations and optimal control.

### The program of the school-seminar includes the following series of lectures of leading scientists

- Bressan A. Dynamic blocking problems.
- Kemmochi N. The theory of nonlinear evolution equations with non-local constraints.
- Wolansky G. Optimal mass transportation: A dynamic approach.
- Ioffe A. D. Algebro-geometric methods in nonlinear analysis and optimization theory.
- Mel'nikova I.V. Resolution of evolution systems with regard for random perturbation. Methods of the semigroup and stochastic analysis.
- Polyak B.T. Robustness in control systems.
- Sesekin A.N. 1. Discontinuous solutions of dynamical systems with a generalized action in the right-hand side.
2. Generalized traveling salesman problem and its applications to some problems of nuclear power.
- Taimanov I.A. Calculus of variations and periodic orbits in magnetic field.
- Tikhomirov V.M. Applications of the theory of extremum in nonlinear analysis.

Short talks (15 min) by the participants of the school-seminar are also planned.

Day	1	2	3	4	5	6	7	8
Time	June 27	June 28	June 29	June 30	July 1	July 2	July 3	July 4
8.30	Arrival	Registration	Series of lectures			Sectional talks	Trip to the lake Baikal	Departure
9.00		Opening						
9.30			Break					
10.00		Series of lectures		Sectional talks				
11.00			Break					
11.15	Series of lectures	Sectional talks						
12.15			Break					
12.30	Arrival Registration	Series of lectures		Sectional talks				
13.30			Lunch					
15.00		Series of lectures		Sectional talks				
16.00			Break		Closing			
16.15		Sectional talks		City tour				
18.15								

## Place

Institute of System Dynamics and Control Theory SB RAS

664033, Irkustk, Lermontov str., 134,

A one-day trip to the lake Baikal will be organized.

## Conference fees and accommodation

The conference fee, 1000 Russian rubles (500 Russian rubles for Ph.D. students and graduate students), *is paid under registration*. If you like to take a part in the trip to the lake Baikal you need to pay an *extra fee* (about 2000 Rubles).

The following hotels are proposed for the participants of the conference :

1. «Academicheskaja», Lermontov str., 271a (Academgorodok)

<i>Room category</i>	<i>Price in Russian Rubles</i>
Single room	From 1620 to 1860 (for members of RAS – 630)
Double room	From 1260 to 2920

2. «Fregat», Baikalskaja str., 236

<i>Room category</i>	<i>Price in Russian Rubles</i>
Single room standard	950
Double room standard	1900
Triple room standard	2850
Double room junior	3200 (single accommodation 2650)
De luxe	3200 (single accommodation 2750)

3. «Ikar», Lermontov str., 337

<i>Room category</i>	<i>Price in Russian Rubles</i>
Single room	1500
Double room	2300
De luxe	4200

## Transport

***The organizing committee will meet upon arrival the participants of the school-seminar.***

To get from the airport to the institute you can take the trolleybus № 6, the buses №№ 80, 90, the share taxi № 45 and go to the stop «Akademgorodok».

To get from the railway station to the institute you can take the share taxi № 72 until the stop «Akademgorodok».

To get to the hotel «Academicheskaja» you take the same numbers and go to the stop «Shkola № 19».

To get to the hotel «Ikar» you take the same numbers as above and go to the stop «Mikrokhirurgija glaza».

To get to the hotel «Fregat» from the airport you take the same numbers again and go to the stop «Lisikha», and from the railway station you take the bus № 77 to the stop «Lisikha».

The transport fee varies from 10 to 12 Rubles.

### **Registration**

The registration of the participants of the conference will take place on **June 27, 2010 r. from 12.30 till 16.00 and on June 28, 2010 from 8.30 to 9.30** in the hall of the Institute for System Dynamics and Control Theory SB RAS. Address: Irkutsk, Lermontov str., 134.

### **IMPORTANT NOTICE!**

**All participants who are not from Irkutsk must communicate to the organizing committee before May 25, 2010:**

- the arrival and departure dates, means of transport, the number of flight;
- the hotel and the kind of room they wish to be accommodated in.

### **Technical support**

The following equipment will be provided for the talks: multimedia projector (LCD Projector).

### **Organizing committee's address**

664033, Irkutsk, Lermontov str., 134, IDTSU SO RAN.

E-mail: [nla2010@icc.ru](mailto:nla2010@icc.ru).

Phone: (3952) 45-30-30, (924) 602-58-52 – Lempert Anna Anan'evna.

Fax: (3952) 51-16-16 (marked «School-seminar NLA-2010»).