



# International Conference on Generalized Functions, Bedlewo 2007

## Second Announcement

### LINEAR AND NON-LINEAR THEORY OF GENERALIZED FUNCTIONS AND ITS APPLICATIONS · GF 07

#### Place and time of the Conference:

Mathematical Research and Conference Center, Bedlewo, Poland;  
September 2 (arrival) - September 8 (departure), 2007

#### The organizers:

- Stefan Banach International Mathematical Center, Warsaw
- Institute of Mathematics, Polish Academy of Sciences, Warsaw
- Institute of Mathematics, University of Rzeszow, Poland

#### Organizing Committee:

Andrzej Kaminski (University of Rzeszow, Poland)  
Oleg Lopuszanski (University of Rzeszow, Poland)  
Grzegorz Lysik (Polish Academy of Sciences, Warsaw, Poland)  
Michael Oberguggenberger (University of Innsbruck, Austria)  
Stevan Pilipovic (University of Novi Sad, Serbia)

#### Scientific Committee:

Piotr Antosik (Katowice), Jean-Francois Colombeau (Grenoble), Michael Grosser (Vienna),  
Andrzej Kaminski (Rzeszow), Hikosaburo Komatsu (Tokyo), Jean-Andre Marti (Pointe-a-Pitre),  
Luigi Rodino (Torino), Czeslaw Ryll-Nardzewski (Wroclaw), Vasilii S. Vladimirov (Moscow),  
Man Wah Wong (Toronto)

#### Scientific topics include:

Structure and properties of the spaces of distributions, ultradistributions, hyperfunctions and other g.f., irregular operations on g.f.: convolution, product, composition etc., convolutors, convolution algebras, convolution equations in spaces of g.f., semigroups of g.f., convolution quotients and algebraic constructions of g.f., operational calculus and its generalizations, fractional calculus, integral transforms of g.f., spectral and microlocal analysis in spaces and algebras of g.f., Colombeau theory of g.f. with applications, non-linear problems in g.f., infinite dimensional complex analysis, linear and non-linear ordinary and partial differential equations in g.f., equations of mathematical physics, differential and pseudodifferential operators, the Weyl calculus, PDE's on networks and their applications, boundary values in ultradistribution and hyperfunction spaces, series and asymptotic expansions of g.f., wavelets for g.f., functional equations in the spaces of g.f., applications of g.f. in probability theory, generalized stochastic processes, applications of g.f. in physics (elasticity, fluid dynamics, acoustics, seismology, general relativity theory etc.).

## **Scientific presentations:**

**Plenary speakers include:** S.-Y. Chung, J.-F. Colombeau, T. Gramchev, M.V. de Hoop, J. Kisynski, H. Komatsu, M. Kunzinger, M. Oberguggenberger, S. Pilipovic, L. Rodino, J. Toft, J.A. Vickers, D. Vogt.

Besides plenary lectures during the scientific sessions talks of length 30 minutes and short communications of length 15 minutes (including the time for discussion) are planned.

One of the sessions will be devoted to the late Professor Jan Mikusinski, the creator of the algebraic theory of operational calculus and the initiator of the series of international conferences on generalized functions which began in 1966 in Katowice and is still continued, to commemorate the twentieth anniversary of his death.

## **The proceedings of the Conference are planned to be published**

in the journal Integral Transforms and Special Functions  
or in the Banach Center Publications series.

## **The conference fee:**

The total cost of the conference for a participant is 300 € and will cover:

- the registration fee
- one week of lodging
- all meals
- transportation from/to Poznan (airport or railway station) to/from Bedlewo (both directions)
- banquet
- local excursion.

The total cost of the conference for an accompanying person is 200 €.

**More information concerning GF 07 can be found on the web-site of the Conference at the address:**

<http://www.impan.gov.pl/~gf07>

## **Contacts for the conference:**

### **Postal address:**

Andrzej Kaminski  
University of Rzeszow, Institute of Mathematics,  
Rejtana 16 A, 35-310 Rzeszow, Poland

### **E-mail addresses:**

[akaminsk@univ.rzeszow.pl](mailto:akaminsk@univ.rzeszow.pl)  
[gf07@impan.gov.pl](mailto:gf07@impan.gov.pl)

## **Polish visa:**

In case you (and/or your accompanying person) need Polish visa please inform us about it and give us the respective personal data in the Registration Form.

## **Registration:**

Up to now about 50 participants from 15 countries are already registered (see the web-side of the Conference).

All persons who are interested in participating in the Conference and who are not registered yet are kindly requested to fill in the enclosed Registration Form and to send it back to the address: [gf07@impan.gov.pl](mailto:gf07@impan.gov.pl). Please give us the title and the abstract of your talk or short communication (this can be done in the text of the Registration Form).

**Deadline for registration and sending abstracts is June 30, 2007.**