



**The International Conference  
on Generalized Functions, Bedlewo 2007 (GF 07)  
First Announcement**

**Name of the Conference:**

**LINEAR AND NON-LINEAR THEORY OF GENERALIZED FUNCTIONS  
AND ITS APPLICATIONS (GF 07)**

**Place of the Conference:**

The Mathematical Research and Conference Center at Bedlewo near Poznan, Poland

**The organizers:**

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

**Organizing Committee:**

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

**Time of the Conference:**

September 2 (arrival) - September 8 (departure), 2007

**Scientific topics:**

Structural properties of the spaces (and subspaces, weighted spaces) of distributions, ultradistributions, hyperfunctions and other generalized functions (g.f.), regular and irregular operations on g.f., product of g.f., Colombeau theory of g.f., Colombeau algebras, convolution, convolutors, convolution equations in the spaces of g.f., convoluted semigroups, convolution algebras, convolution quotients and algebraic constructions of g.f., Mikusinski operational calculus, integral transforms (Fourier, Laplace, Hilbert, Mellin, Hankel etc.) of g.f., fractional calculus, asymptotic expansions of g.f., boundary values in ultradistribution and hyperfunction spaces, linear and non-linear ordinary and partial differential equations in g.f., equations of mathematical physics with singularities, differential and pseudodifferential operators (with non-smooth amplitudes), local and microlocal analysis in spaces and algebras of g.f., the Weyl calculus, Gabor frames, wavelets, infinite dimensional complex analysis, functional equations and their stability 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.).

**Total cost of the Conference:**

The conference fee is 300 euros (~\$380;~1200 PLN) per person. This will cover: the registration fee, one week lodging, all meals, transportation from/to Poznan (airport or railway station) to/from Bedlewo (both directions), banquet and possible local excursion.

Payment can be made upon arrival to Bedlewo by a major credit card or cash in euros, dollars or Polish zloty.

Payment for the conference also can be made by bank transfer. If you pay this way, please keep a receipt and be ready to present it when you come to the Bedlewo Center!

Payment in euros or dollars:

Instytut Matematyczny PAN with the note GF07

Name of the bank: BPH PBK SA, III Oddz. Warszawa

Account number:

SWIFT code: BPHK PLPK

92 1060 0076 0000 4010 5011 3285 - payments in EURO,

13 1060 0076 0000 4010 5000 1120 - payments in USD.

Payment in Polish zlotych:

Instytut Matematyczny PAN with the note GF07

Name of the bank: Citibank Handlowy

Account number: 08 1030 1508 0000 0005 0319 0044

The Local Organizing Committee already has secured some funds and we work very intensively to get more external support. If we are successful (it is not guaranteed yet), the local expenses for a number of young participants from East European countries will be waved completely.

**Organizers wish to publish the proceedings**

in the Banach Center Publications (BCP) series (see the web-site of the Banach Center).

**The address of the web-site of the Banach Center:**

<http://www.impan.gov.pl/BC>

**The address of the web-site of the Conference:**

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

**E-mail addresses for contact:**

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

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

**Postal address:**

Prof. Andrzej Kaminski

University of Rzeszow, Institute of Mathematics,

Rejtana 16 A ,

35-310 Rzeszow, Poland

**Registration:**

All persons who are interested in participating in the Conference are kindly requested to let us know about it using the above addresses and to register by filling out the registration form given below and sending it back to the address: [gf07@impan.gov.pl](mailto:gf07@impan.gov.pl) .

**More information can be found on the web-site of the Conference:** <http://www.impan.gov.pl/~gf07>