



# International Workshop on Smoothness, Approximation, and Function Spaces



Oppurg/Thür. (Germany), October 10 - 16, 2010

## Second Announcement

Dear Colleague,

we have received your registration for the

**International Workshop on  
"Smoothness, Approximation, and Function Spaces",**

October 10-16, 2010.

<http://safs2010.uni-jena.de/>

with great pleasure. The conference is an essential part of the German-Ukrainian research project "Smoothness from the point of view of theory of function spaces (classes) and approximation". It is mainly funded by the DFG (436 UKR 113/103/0-1).

We thank you for your interest and would like to give some further information.

### 1. Lectures

The programme of the conference consists of invited lectures and further talks given by the participants. The main lectures are the following:

- **Stanislav O. Chaichenko**, *Slavyansk State Pedagogical University / Ukraine*  
"Approximation by Vallee-Poussin operators"
- **Sergey M. Chuiko**, *Slavyansk State Pedagogical University / Ukraine*  
"The Noetherian boundary value problems for the impulse differential systems"
- **Alexander M. Chukharev, Konstantin V. Runovski, Anatoli S. Samodurov**  
*Marine Hydrophysical Institute Sevastopol / Ukraine*  
"On global properties of vertical spectra of some hydrophysical characteristics gradients in stratified layers with turbulence patches"
- **Boris S. Kashin**  
*Steklov Mathematical Institute, Moscow & Lomonosov Moscow State University / Russia*  
"On uniform approximation of partial sums of Dirichlet Series by shorter ones"
- **Veniamin G. Krotov**, *Belorussian State University / Belarus*  
"Lusin's theorem and compactness in  $L^p$  spaces"
- **Hans-Gerd Leopold**, *Friedrich-Schiller-University Jena / Germany*  
"Entropy numbers of embeddings in Besov spaces"
- **Erich Novak**, *Friedrich-Schiller-University Jena / Germany*  
"How can we obtain tractability of multivariate problems?"
- **Igor V. Orlov**, *Tavrisheski State University Simferopol & Lomonosov Moscow State University, Sevastopol Branch / Ukraine*  
"Compact-defined decompositions of spaces with applications to calculus of variations in Sobolev spaces and to Bochner integral in Fréchet spaces"
- **Konstantin V. Runovski**, *Slavyansk State Pedagogical University & Marine Hydrophysical Institute Sevastopol & Lomonosov Moscow State University, Sevastopol Branch / Ukraine*  
"Generalized module of smoothness,  $K$ -functionals and approximation methods"
- **Winfried Sickel**, *Friedrich-Schiller-University Jena / Germany*  
"Best  $m$ -term approximation and function spaces of dominating mixed smoothness"

- **Hans Triebel**, *Friedrich-Schiller-University Jena / Germany*  
"Hardy inequalities, entropy numbers, spectral theory"

You can have a look at the (preliminary) list of participants and the corresponding abstracts via our web-site. We ask all participants (who have not yet done this) to send us titles & abstracts of their talks **by July 15, 2010**, at latest. There will also be an opportunity for ad hoc -seminars.

The lecture room will be equipped with two overhead projectors, a data projector + laptop, and a small board.

## 2. Lecture Notes

Instead of (usual, printed) *Proceedings* we plan to offer all speakers of this workshop the possibility to send us their material, slides etc. afterwards (preferably in **pdf**). Alternatively also a (closely linked) paper would be welcome.

We collect all this material (or links to your personal web pages) and "publish" it on a special web page of this workshop such that participants can download the files.

You may contact us if you have any question.

## 3. Registration

You will receive a separate Email within the next days where we ask you to confirm and complete your details for the registration. As soon as you reply to this email to us

**safs2010@uni-jena.de**

your registration becomes binding and we shall reserve the accommodation according to your wishes then. You should reply to this confirmation message by

**July 15, 2010**

at latest.

## 4. Venue

The Conference will take place in

**CJD Schloss Oppurg, Oppurg / Thüringen**

<http://www.cjd-schlossoppurg.de/>

situated in a beautiful countryside about 50 km south of Jena. The small town was founded around 1074 and belonged to several Thuringian principalities in its long history.

Our workshop is arranged in the baroque castle "Schloss Oppurg" built between 1708 and 1714. This palace was preceded by a moated castle from the 11th century. A picturesque remainder from this time – an old tower covered with vine branch – can still be found near the castle.

Originally the building had exactly 365 windows, 52 doors, 12 chimneys and 4 entrances, therefore it was also well-known as "Four Seasons Castle". It is surrounded by a lovely small park designed in English country style. For a long time the castle was used as summer residence and hunting lodge, followed by a frequent change of owners and purposes in the recent past. Now it is run by the CJD ('*Christliches Jugenddorfwerk Deutschlands*' ~ '*Christian Association of Youth Villages*') and used as European Centre of Education, hosting workshops, schools and small conferences all over the year.

## 5. Costs & Payment

The accommodation is arranged at the hotel in single and double rooms with full board (*buffet breakfast, lunch and dinner*). The price is **90 €** per night and person in a single room and **75 €** per night and person in a double room.

The conference fee is **90 €**, if paid before **July 31, 2010**, and **100 €** after July 31, 2010. It must be paid by bank transfer only, where bank charges have to be assumed by the registrant.

After doing the bank transfer, please send us an email (safs2010@uni-jena.de) or a fax (+49 3641 9-46102), with a copy of the bank remittance slip. The details of the conference account are :

Account name	:	<b>Friedrich-Schiller-Universität Jena</b>
Code	:	<b>your name + SAFS2010 + 06101380</b>
Bank	:	<b>Deutsche Bundesbank Erfurt</b>
BLZ	:	<b>820 000 00</b>
Account number (in Germany)	:	<b>830 015 03</b>
BIC	:	<b>MARK DEF 1820</b>
IBAN	:	<b>DE 0982 00000000 83001503</b>

## 6. Conference Schedule

The arrival is on Sunday evening (October 10, 2010) followed by a joint dinner. The lectures are scheduled on Monday (not starting before 10 a.m.), Tuesday, Wednesday morning, Thursday and Friday (lasting until 6 p.m. at latest).

Wednesday afternoon is reserved for a hiking trip through the beautiful local scenery or, alternatively, a guided tour (details are not yet fixed). We shall have a special workshop dinner, but the day is not yet fixed.

Moreover, we plan to have an international football match (if there are enough potential players).

## 7. Travel information

Oppurg is connected by local trains to Leipzig (via Gera) and Saalfeld, which have direct fast train connections to Berlin, Frankfurt/Main and Munich. Moreover, the municipality is situated directly on the so-called "Thuringian Street of Porcelain" (B281) (<http://www.thueringerporzellanstrasse.de/>) not far from the highway A9.

You may find train connections to Oppurg via <http://reiseauskunft.bahn.de/>

Detailed travel instructions to the venue can be found on the (German) web-pages of the hotel.

For making the arrangements as smooth as possible, we ask you to inform us about your exact arrival time in Oppurg in your earliest convenience.

## 8. Summary of the deadlines

**July 15, 2010** complete and return the confirmation email for your registration (*which you will get within the next days*)  
latest submission of titles and abstracts for talks

**July 31, 2010** conference fee at reduced rate

## 9. Latest news

You may visit our conference web-site

<http://safs2010.uni-jena.de/>

regularly to find out the latest news (preliminary list of participants, programme etc.).

The last announcement with further details will be mailed by the middle of September 2010.

We are looking forward to meeting you in Oppurg.

Dorothee D. Haroske  
Konstantin V. Runovski  
Hans-Jürgen Schmeißer

*For further information, please contact us via*

Friedrich-Schiller-University Jena  
Mathematical Institute  
Ernst-Abbe-Platz 2  
D-07743 Jena, Germany

Tel. : **+49 3641 9-46125**  
Fax : **+49 3641 9-46102**  
E-mail : **safs2010@uni-jena.de**

or

Lomonosov Moscow State University, Sevastopol Branch  
Geroev Sevastopolya Str., 7  
99001 Sevastopol, Ukraine

Tel. : **+38 099 7940926**  
Fax : **+38 0692 487139**  
E-mail : **k.runov@mail.ru**