



**SPM-2019-RCWDFM  
Joint International Conference  
3<sup>rd</sup> International Conference  
"Scanning Probe Microscopy"**

**4<sup>th</sup> Russia-China Workshop on Dielectric  
and Ferroelectric Materials**

**International Youth Conference  
"Functional Imaging of Nanomaterials"**

**Ural Federal University, Ekaterinburg, Russia  
August 25-28, 2019**

**First Announcement**

**SPM Scope and History:**

The conference will cover a wide range of topics related to modern nanotechnologies and functional imaging of nanostructured materials by various modes of Scanning Probe Microscopy as well as study of ferroics. The Youth Conference will consist of tutorial session and scientific conference on nanoscale phenomena in different functional materials.

The first SPM conference was held in Ekaterinburg in 2017 and had such a success that it was decided to hold it in the same place in 2018 and in 2019.

**SPM Topics:**

1. SPM in materials science
2. PFM, MFM, KPFM, SNOM, ESM, SEM, and related techniques
3. Tip-enhanced phenomena
4. Probe lithography and nano-indentation
5. Ferroelectrics, piezoelectrics, and ionic conductors
6. Multiferroic phenomena and magnetoelectric coupling on the nanoscale
7. Interface and domain engineering
8. Biocompatible & organic materials
9. 1D and 2D nanostructured materials
10. Theory, modeling, and data processing

**SPM General Chairs:** Vladimir Shur (Russia) & Victor Mironov (Russia)

**SPM International Program Committee:**

A. Ankudinov (Russia)	A. Bukharaev (Russia)	V. Bykov (Russia)
S. Chizhik (Belarus)	A. Gruverman (USA)	A. Kholkin (Portugal)
O. Kolosov (UK)	A. Latyshev (Russia)	V. Mironov (Russia)
A. Saranin (Russia)	V. Shur (Russia)	V. Shvartsman (Germany)
A. Volodin (Belgium)	I. Yaminsky (Russia)	

**Official language:** English

**RCWDFM Scope and History:**

The workshop aims at providing a platform to enhance the bilateral communication, exchange and collaboration among the researchers working on fundamentals and applications of dielectric and ferroelectric materials.

The first China-Russia workshop was held in Xi'an in 2013, the second – in Voronezh in 2015, and the third – in Wuhan in 2017.

**RCWDFM Topics:**

1. High-performance piezo-/ferroelectric materials and devices
2. Thin films, single crystals, interfaces and nanoscale materials
3. Multiferroic materials and devices
4. New mechanisms/materials/devices
5. Domains, domain walls, and domain engineering

**RCWDFM General Chairs:** Alexander Sigov (Russia) & Zhuo Xu (China)

**RCWDFM International Program Committee:**

I.N. Chugueva (Russia)	H.S. Gu (China)	A.L. Kholkin (Portugal)
L.N. Korotkov (Russia)	H.X. Liu (China)	W. Ren (China)
I.V. Shnidshtein (Russia)	V.Ya. Shur (Russia)	T.R. Volk (Russia)
S.B. Vakhruhev (Russia)	X.Y. Wei (China)	Z.G. Ye (Canada)

**Venue:**

Ekaterinburg is one of the largest and the most dynamic cities in Russia. It is an administrative center of Sverdlovsk region and the Ural Federal District and an important center for industry, transport, science, and culture. Lying in the middle of the Eurasian continent, where Europe meets Asia, Ekaterinburg is two hours ahead of Moscow and 5 hours ahead of Greenwich. The city takes up an area of about 500 km<sup>2</sup>, has a population close to 1.5 million, and ranks 4<sup>th</sup> in Russia.

**Conference Proceedings:**

Ferroelectrics and IOP Conference Series: Materials Science and Engineering

**Conference website:** <https://nanocenter.urfu.ru/en/spm2019rcwdfm/>

**Chair of the Organizing Committee:** Vladimir Shur, Ural Federal University

**Secretary:** Elena Pelegova, Ural Federal University

**Important Deadlines:**

Abstract submission: April 15, 2019

Early-bird registration: June 10, 2019

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