

**Joint U.S.-Russian Workshop on  
Induction-Heated Cold-Crucible Melter Technology**  
Moscow and St. Petersburg, Russia  
February 22-26, 2001

**Russian Participants:**

Valery Romanovsky, V.G. Khlopin Radium Institute (KRI)  
Albert Aloy, KRI  
Vadim Starchenko, KRI/Daymos, Ltd  
Mikhail Moshkov, KRI  
Dmitry Lopukh, St. Petersburg Electrotechnical University  
Evgeny Ivanov, KRI  
Valery Belov, KRI  
Alexander Trofimenko, KRI  
Olga Ishakova, KRI  
Pavel Poluektov, A.A. Bochvar All-Russian Scientific Research Institute of Inorganic  
Materials (VNIINM)  
Tatiana Smelova, VNIINM  
Andrei Demine, VNIINM  
Victor Serebryakov, VNIINM  
Igor Shestoperov, VNIINM  
Victor Pastushkov, VNIINM  
Yurii Matyunin, VNIINM  
Nikolai Musatov, VNIINM  
Sergey Dmitriev, Moscow Scientific and Industrial Firm (Radon)  
Fyodor Lifanov, Radon  
Sergei Stefanovsky, Radon  
Mikhail Ozhovan, Radon  
Natalia Vitik, Radon  
Alexander Kobelev, Radon

**U.S. Participants**

Kurt Gerdes, U.S. Department of Energy-Office of Environmental Management  
Roger Gilchrist, Pacific Northwest National Laboratory (PNNL)  
Bill Holtzscheiter, Savannah River Technology Center (SRTC)  
Joe Perez, PNNL  
Dennis Bickford, SRTC  
Mark Whitney, Science Applications International Corporation  
Tatyana Albert, Thomas E. Albert and Associates, Inc. - Interpreter

**Background:**

A U.S.-Russian workshop on Induction-Heated Cold Crucible Melter (CCM) Technology was conducted in Santa Fe, New Mexico, July 18-19, 2000, under the auspices of the Joint Coordinating Committee for Environmental Restoration and Waste Management (JCCEM). During the workshop, a draft Statement of Work (SOW) was jointly developed by U.S. DOE Tanks Focus Area (TFA) representatives and participants from 3 Russian institutes (KRI, VNIINM, Radon). During the 10<sup>th</sup> JCCEM meeting, held in Prague, Czech Republic, September 12-14, 2000, a joint project on CCM technology was approved in general and it was agreed that a workshop be conducted in Russia to evaluate Russian institute capabilities, discuss project details, and finalize the JCCEM Contract and SOW.

### **Workshop Activities:**

During this workshop, the U.S. DOE team visited 3 Russian institutes- VNIINM and Radon in Moscow (February 22-23), and the V.G. Khlopin Radium Institute in St. Petersburg (February 26). Through presentations, facility tours, and discussions, the workshop participants were able to obtain critical information, exchange ideas, and accomplish the workshop objectives defined above.

Tours were conducted at each of the Russian institutes and TFA personnel viewed the facilities where cold-crucible melter technology is present. Based on these tours and the discussions of institute capabilities, TFA representatives have made a determination concerning the extent of each institute's involvement in the project. The responsibility of each institute will be represented in the tasks of the revised SOW, which will be translated and provided to the Russian side by March 15, 2001.

It was agreed that Dr. Albert Aloy (KRI) will serve as the technical coordinator for the project on the Russian side and Dr. Joe Perez (PNNL) will serve as the Principal Investigator for DOE-TFA. The Contract will be concluded with Daymos, Ltd., and the Project Manager for the Russian side will be Dr. Vadim Starchenko (Daymos). It was also agreed during the workshop that representatives of the Tanks Focus Area would participate in the testing conducted at the Russian institutes, which is outlined in the Statement of Work.

### **Path Forward**

1. The U.S. side will provide the Khlopin Radium Institute a translated version of the revised Statement of Work for review by the Project Manager and each Principal Investigator on the Russian side no later than **March 15, 2001**.
2. The Russian side will evaluate the waste compositions provided by the U.S. side, determine the availability of compounds and the ability to simulate the compositions, and inform the U.S. side of those chemical components that are available, and propose alternative compositions for those that are not available no later than **March 15, 2001**.
3. The U.S. side will specify in the SOW the facilities and equipment for each task as agreed to during the workshop.
4. The Russian side will provide current banking information for Daymos, Ltd., for inclusion in the Contract.

The Record of Meeting was signed by:

For the U.S. side  
Kurt Gerdes  
Program Manager  
High-Level Waste Tanks Focus Area  
U.S. Department of Energy

For the Russian side  
Albert Aloy  
Principal Investigator  
V.G. Khlopin Radium Institute