

30.10.2014  
H. V. Karpenko  
18.11.18

## Cooperative Research and Development Memorandum

**Project Name:** Memorandum about Joint Research between AVIC Manufacturing Technology Institute and H. V. Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine

**Party A:** AVIC Manufacturing Technology Institute (hereinafter MTI)

**Party B:** H. V. Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine (hereinafter PhMI NASU)

On the basis of friendly cooperation and visiting each other, to promote the collaboration further and complement each other, to achieve technological innovation on mechanical manufacturing, materials surface processing and other related fields, and finally to improve its application as soon as possible, now therefore, the parties hereto agree as follow.

### 1. Common Interests Contents.

- (1) Wear resistance technology of Ti alloy, steel, and tungsten structures.
- (2) Fretting wear resistance coatings of Ti alloy.
- (3) Coating performance testing and analysis techniques and equipment.
- (4) Co-research on materials (Ti, Ni, Al alloy, etc.) testing and analysis.
- (5) Co-research on corrosion resistance of Ti, Al alloy, etc.
- (6) Co-research on the defects non-destructive testing and control technology during using and manufacturing process on key components, and develop the special equipment for defects testing.
- (7) Development of theoretical model and its application for materials surface processing technologies.
- (8) Co-research on the advanced manufacturing technologies and products required in

China, Ukraine and other countries along the Silk Road Economic Belt, and then spread into the industry.

(9) Co-training the talents and mutual appointment of experts.

## **2. Cooperation ways and duty.**

(1) The Parties hereto shall perform preparing experiments for project application by taking advantage of respective technical and equipment superiority.

(2) The Parties hereto will support each other on project fulfillment and application.

(3) Visit each other in accordance with the needs.

(4) Further develop remote technological ties through Internet and other communication systems.

(5) Promote joint publications and joint paper presentation at International Conferences, apply for the joint patents.

## **3. Fund source.**

(1) Co-apply for the support of related worldwide organization.

(2) Apply for finance support from two countries of the Parties hereto.

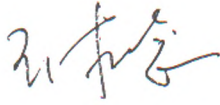
(3) MTI to sponsor the projects that shall be carried out at PhMI NASU, the projects will be proposed by MTI with interests from both parties.

## **4. Others**

(1) This memo is written in English language in two identical copies. Either of the Parties hereto shall hold one copy of each text.

**Party A (stamp): AVIC Manufacturing Technology Institute**

**Signed by:**



**Project Principal: Wang Xiangnian**

**Deputy Chief Technology Officer**

**Date:** 2017. 12.

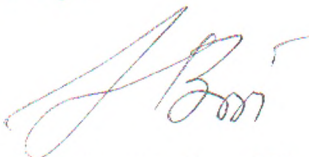


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**Party B (stamp): H. V. Karpenko Physico-Mechanical Institute of the National  
Academy of Sciences of Ukraine**

**Signed by:**



**Project Principal: Zinoviy Nazarchuk**

**Professor, Academician, Director**

**Date:** 15/12/2017

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