**Precision Ion Polishing System**

**Equipment:** Precision Ion Polishing System (PIPS) Model 691(Gatan)

**No. of Equipment:** UACH12

**Responsible coordinator:** Dr. Petr Ecorchard

**Name of Institution:** Institute of Inorganic Chemistry of the AS CR, v.v.i.

**Address of Institution:** Husinec-Řež 1001, 250 68 Řež near Prague, Czech Republic

**E-mail:** ecorchard@iic.cas.cz

**Telephone:** 311236922

**Homepage:** http://cit.iic.cas.cz/

**Contact person (operator): Dr. Monika Motlochová**

**E-mail:** motlochova@iic.cas.cz

**Telephone:** 311236907

**Equipment Description**

**Description of equipment:**

Precision ion polishing system is used for thinning of prepared samples by current of ionized argon to the thickness of few nanometers for transmission electron microscopy.

**Specification of expertise relevant to NanoEnviCz workpackages:**

**WP3**a,c-h, **WP4**a,b, **WP5**c, **WP6**a,c-f, **WP7**a-e,g-i, **WP8**a,c-f

**Detailed description of expertise**

**Please, specify the main research topics connected with equipment**:

All the fields in which the characterization of the prepared materials is needed.

**Please, specify the secondary research topics connected with equipment**:

**Keywords describing research area:**

Sample preparation for transmission electron microscopy.

**Competence**

**Relevance for applied and industrial research:**

High-quality materials characterization to support preparation of perspective novel materials in large scale production (applied and industrial research).

**Relevance for fundamental studies:**

Detailed analysis of prepared materials connection between morphology and properties in nanoscale range.