

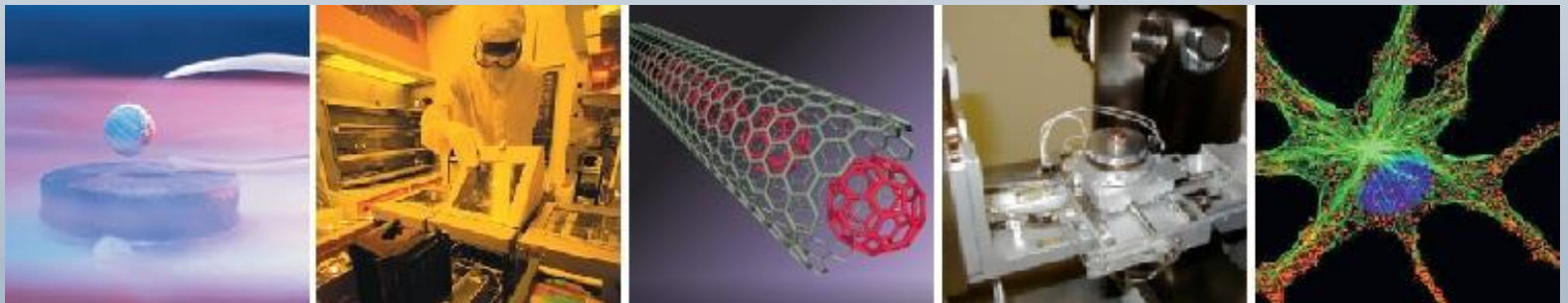
Workshop “Cooperation and Opportunity”
Chisinau , 9 February 2018



Experience of international collaboration

Acad. ASM, Prof.Dr. Anatolie Sidorenko

*Director of Institute of
Electronic Engineering and Nanotechnologies ASM
President of Humboldt Club Moldova*





Humboldt Club Moldova - established in 1997 (brother-club – „Humboldt Polonorum“)

President – prof.Dr. Anatoli Sidorenko,
Gen. Secretary – prof.Dr. Evgeni Sava

34 AvH Fellowships granted between 1990 and 2017

Population: R. Moldova - c.a. 3.5 mio, capital Chişinău – c.a. 700 000

All humboldtians - from Chişinău

18 Alumni work in the Academy of Sciences of Moldova

Distribution by academic discipline:

- 16 in physics/engineering
 - 9 in chemistry/pharmacy
 - 5 in mathematics
 - 4 in archeology
 - etc.
- 

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**National Program of R. Moldova
„NANOTECHNOLOGY“ started in 2004,**

**NATO Advanced Research Workshop:
Nanoscale Devices – Fundamentals and Applications**

September 18-22, 2004 Kishinev, MOLDOVA

Directors:

Prof. Dr. Rudolf Gross

Prof. Dr. Anatoli Sidorenko

- It gives Start for serie of 8 regional AvH-Kollegs**



Activities:

- 1) AvH- Colloquium (Prof. Anatoli Sidorenko), September 20, 2000 , Kishinev, Moldova (AvH – Dr. Steffen Mehlich)
- 2) AvH-Kolleg TTC-2006 Kishinev, Moldova (Prof. Anatoli Sidorenko), September 15-18, 2006 (AvH - Dr.Felix Streiter)
- 3) AvH-Kolleg NANO-2007 Kishinev, Moldova (Prof. Anatoli Sidorenko, Prof. Ion Tiginyanu), September 20-22, 2007 (AvH - Prof. Achim Wixforth)
- 5) AvH-Kolleg NANO-2009, Kishinev September 2009 (Prof. Anatoli Sidorenko, AvH - Dr. Per Brodersen)
- 6) AvH-Fachkolleg in Archaeology, October 2009 (Prof. Evgeni Sava)
- 7) AvH-Kolleg NANO-2013, Kishinev , September 2013 (Prof. Anatoli Sidorenko, AvH – Prof.Dr.Helmut Schwarz, Bianca Mueller)
- 8) AvH-Round Table Science and innovation in the period of globalization, 31 October 2014, Kishinev, Moldova (AvH- Dr. Judith Schildt)
- 9) AvH-Kolleg NANO-2016, Kishinev, 11-14 May 2016
- 10) Institutespartnerschaften project – between Institute of Nanotechnology, Karlsruhe (prof.dr. Horst Hahn) and IEN ASM, prof.Dr. Anatoli Sidorenko, 2010 - 2013



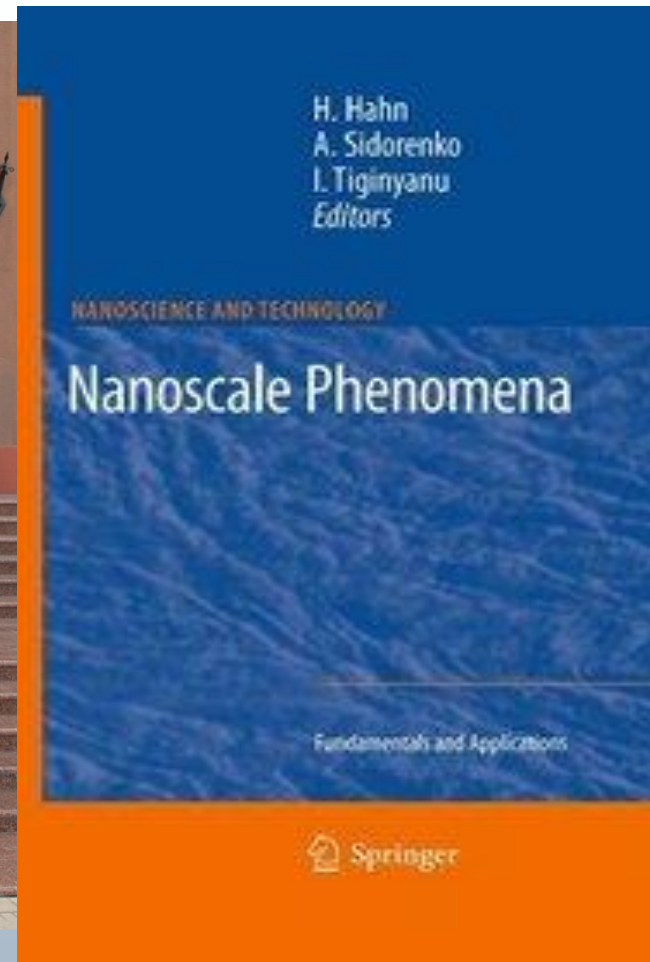
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AvH-Kolleg “Technologies and Threats of the 21-st Century” (TTC-2006 ,
director prof. Anatoli Sidorenko), Kishinev, September 15-18, 2006
(AvH -Dr.Felix Streiter) 56 participants



**NANO – 2007, Moldova Chisinau,
20-22 septembrie 2007**

84 Teilnehmer, 18 Humboldtianer, 20 Teilnehmer aus Deutschland



AvH-Kolleg „NANO-2009 –
Cooperation with Germany: experience, new forms and perspectives“

17-20 September 2009, Kishinev, Moldova



Participants: 270 – total, 34 humboldtians 22 – from Germany



Humboldt Kolleg “NANO-2013”

**“Knowledge Society: mutual influence and interference of science and society”,
Chişinău, Republic of Moldova, 13-16 September 2013**



Prof.Dr. Helmut Schwarz - Doctor Honoris Causa der Akademie für Wissenschaften Moldawiens

Participants: 85 – total, humboldtians - 22



Humboldt Round Table

Science and innovation in the period of globalization

Chisinau, 31 October 2014



*Round Table "Science and innovation in the period of globalization"
Kishinev, Moldova, 31 October 2014*

The main topics discussed during the Round Table:

- international cooperation in research and innovation
- new possibilities for research funding, EU projects
- internationalization of science and education.

It was elaborated MEMORANDUM



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Some other activities

German- Moldavian Doctorants

Together supervised:

- 1. Uni-Augsburg , prof. Siegfried Horn+ prof.A.Sidorenko (dr.Jan Kehrle, 2013)**
- 2. KIT-Karlsruhe, prof. H. v. Löhneysen+prof. A. Sidorenko (dr.Alexander Cosceev, 2006)**
- 3. Uni-Darmstadt, prof. Hans Hartnagel –prof. I.Tiginyanu (3 Doctorants, 1998-2007)**
- 4. Forschungszentrum Karlsruhe, prof. Thomas Schimmel+prof. A.Sidorenko (dr.Thomas Koch, Kishinev-2006)**
- 5. Uni-Göttingen, prof. Konrad Samwer (dr.habil.Vasile Mosneaga, 2007)**
- 6. Uni-Augsburg, prof. Siegfried Horn+prof. A.Sidorenko (dr.Roman Morari, 2011)**

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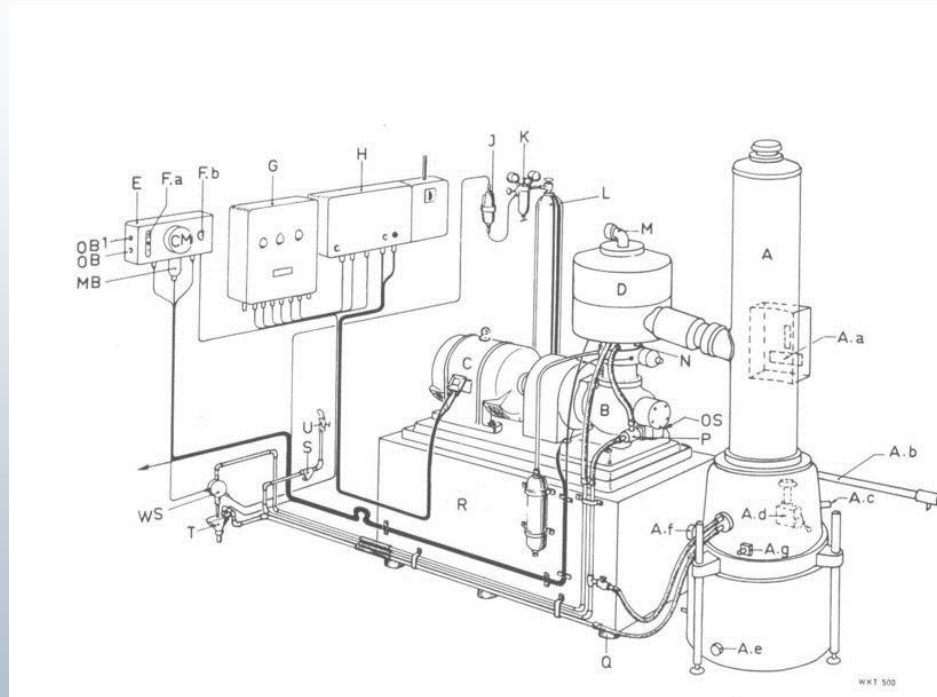
Cryocooler Complex "Coolpower 4.2GM" ,
donation of A.v.Humboldt foundation,
Received in March,1998 – 6 PhD –works were done





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Nitrogen Liquifair "PLN-106" as Donatation of A.v.Humboldt
Foundation,
came to the Laboratory in February-2004 from Germany **via Embassy of Germany in Chisinau**





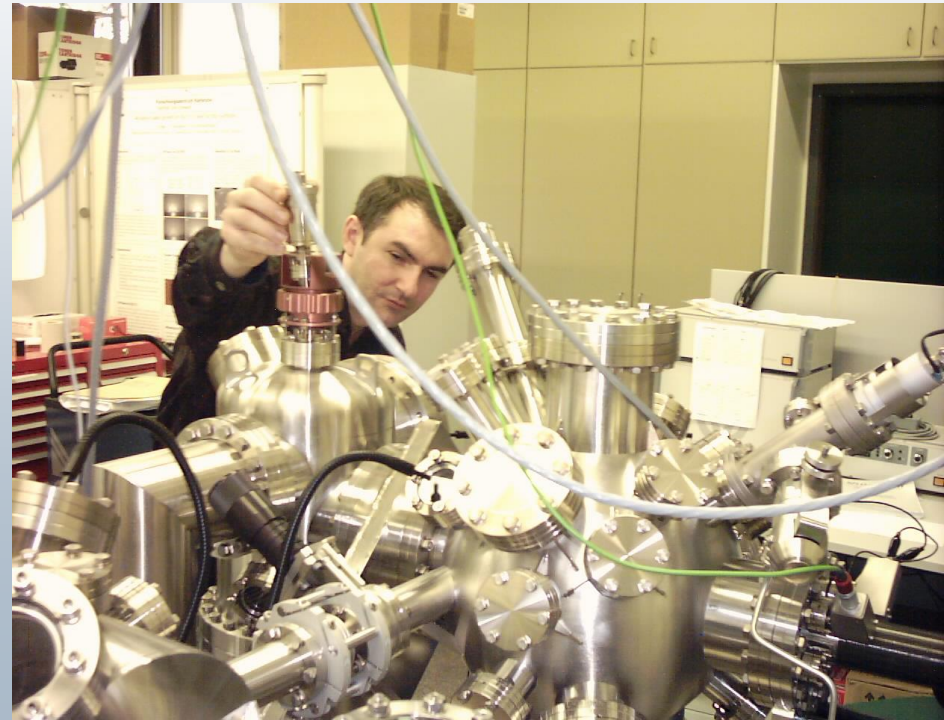
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**Method of synthesis of MgB_2 .
Device for synthesis of magnesium diboride.**

**A. Sidorenko, V. Zdravkov, Th. Koch, Th. Schimmel,
patent RM Nr.3511 , a.2008, patent of RM Nr.3512, a.2008.**

IIEN, Kishinev

Institute of Nanotechnology, Karlsruhe



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**Elektronischer Transport
in dünnen Pd-Schichten
auf $\text{Eu}_x\text{Sr}_{1-x}\text{S}$**

Zur Erlangung des akademischen Grades eines
DOKTORS DER NATURWISSENSCHAFTEN

von der Fakultät für Physik der
Universität Karlsruhe (TH)

genehmigte
DISSERTATION

von

Dipl.-Ing. (Rep. Moldova) Alexander Cosceev
aus Gremeacinsk, Russland

Tag der mündlichen Prüfung 28. Juli 2006

Karlsruhe 2006

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**PhD- theses defence of
Koch
Thomas August Richard**

March, 01 , 2006 Kishinev





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Moldavian Academy of Sciences
Institute of Applied Physics

On the rights of manuscript

UDC 537.312.62

**Koch
Thomas August Richard**

**Microstructure and Flux Flow Processes
in Superconducting MgB_2 Films**

01.04.07 – Solid state physics

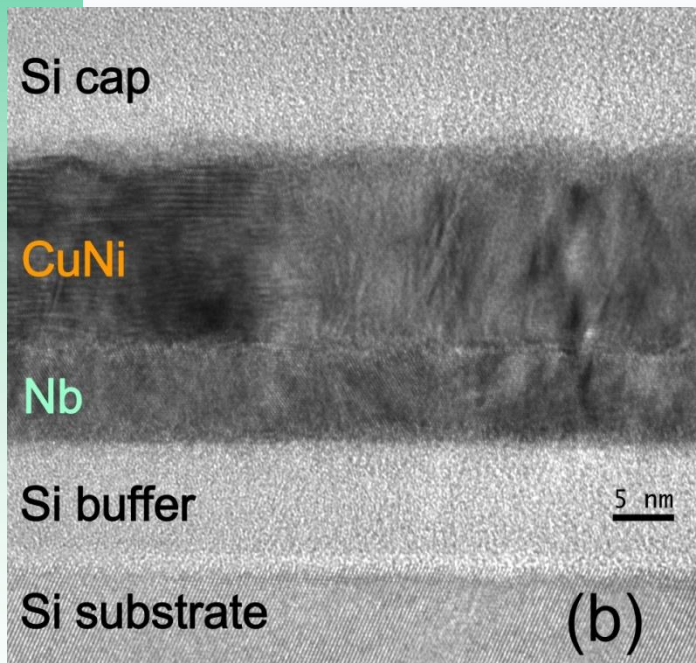
Theses of PhD Dissertation in physics and mathematics

Chisinau 2006

Advanced Nanotechnology for spintronics RM-Germany

IIEN, Chisinau + Institute of Nanotechnology, Karlsruhe

(AvH-Institutspartnerschaften Project, 2010-2013)



Sidorenco A., Zdravkov V., Morari R. Device for fabrication of superconducting films. Patent RM 175 , 30.03.2010



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Zusammenfassung

**Eine gute Netzwerk – die Fähigkeit
multipliziert!**