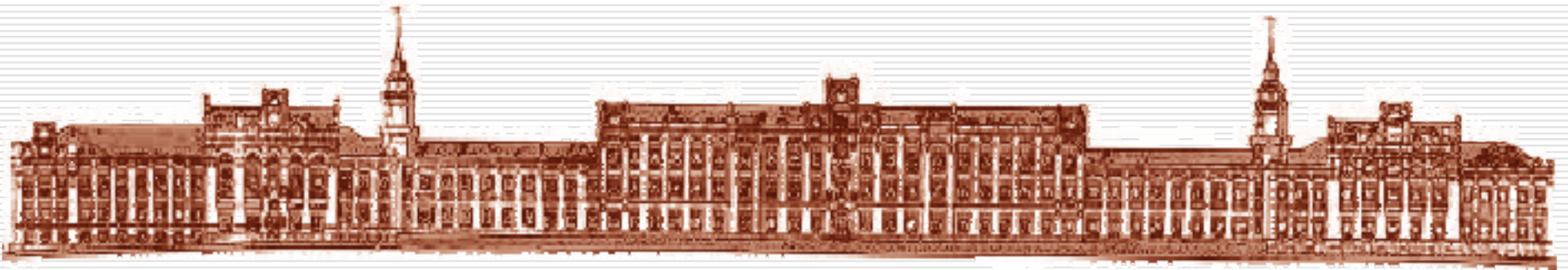


# Ukraine: Potential Possibilities and Deterrents For Innovation

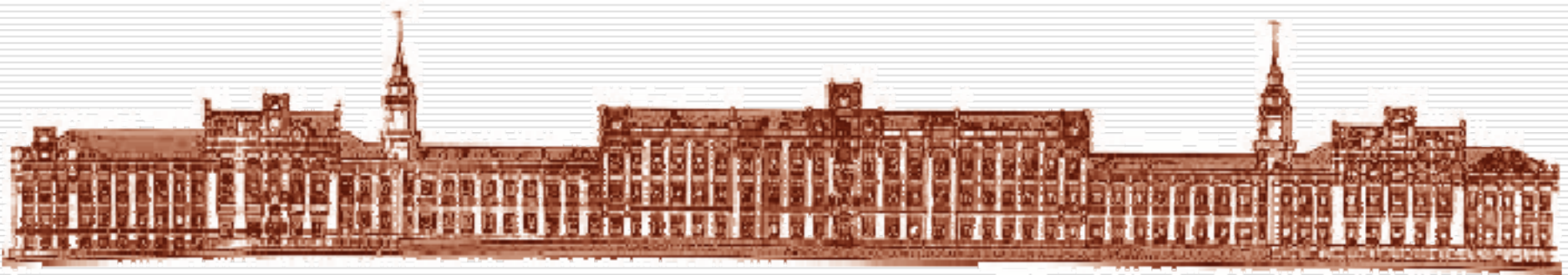
M.Zgurovsky, Rector,  
National Technical University of Ukraine  
"Kyiv Polytechnic Institute"  
[zgurovsm@hotmail.com](mailto:zgurovsm@hotmail.com)



**As Rector of the  
National Technical University of Ukraine  
“Kyiv Polytechnic Institute”**

**I would like to welcome all of the participants of  
the conference today.**

**I would especially like to welcome the experts  
and participants from outside of Ukraine who are  
taking time out from their busy schedules to be  
here in Kyiv and to help with this important topic  
of Entrepreneurship, Technology Transfer,  
Intellectual Property, and Commercialization of  
Innovation in Ukraine**



**And a special thank you  
to the dedicated organizers from the  
United Nations  
Economic Commission for Europe.**

**Welcome to Mr. Andrey Vasiliev,  
Deputy Executive Secretary, UNECE.**

**I would especially like to welcome the experts and  
participants from outside of Ukraine who are taking  
time out from their busy schedules to be here in Kyiv  
and to help with this important topic of  
Entrepreneurship, Technology Transfer, Intellectual  
Property, and Commercialization of Innovation in  
Ukraine**





# UKRAINE



**Ukrainian Population is 46,1 million people**

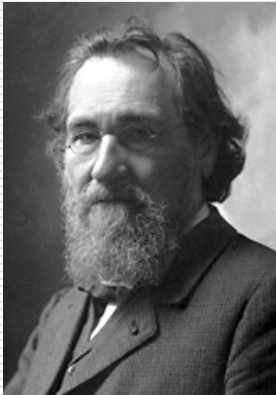
**Ukrainian Area is 603 700 sq. kilometers**







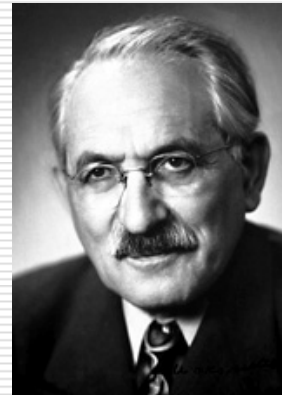
# Nobel Prize Winners of Ukrainian Origin



**Ilya Ilyich Mechnikov**

15 May, 1845 –  
15 Jul. , 1916

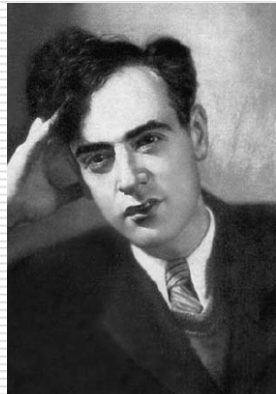
The Nobel Prize in  
Physiology or Medicine  
(1908)



**Selman Abraham Waksman**

22 Jul., 1888 –  
16 Aug., 1973

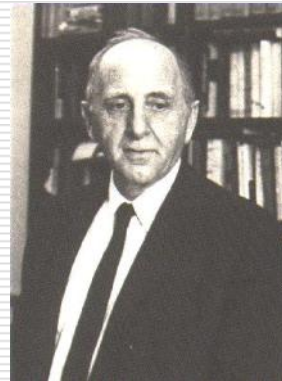
The Nobel Prize in  
Physiology and Medicine  
(1952)



**Lew Davidovich Landau**

9 Jan., 1908 –  
1 Apr., 1968

The Nobel Prize in Physics  
(1962)



**Simon Smith Kuznets**

30 Apr., 1901 –  
8 Jul., 1985

The Nobel Memorial Prize  
in Economic Sciences  
(1971)



**Roald Hoffmann**

Born on July, 18, 1937

The Nobel Prize in  
Chemistry (1981)

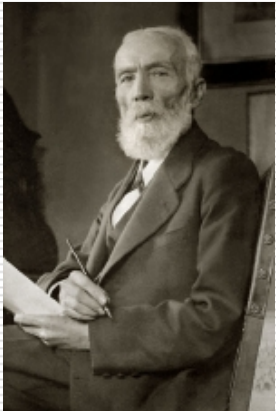


**Georges Charpak**

8 Mar., 1924 –  
29 Sep., 2010

The Nobel Prize in  
Physics (1992)

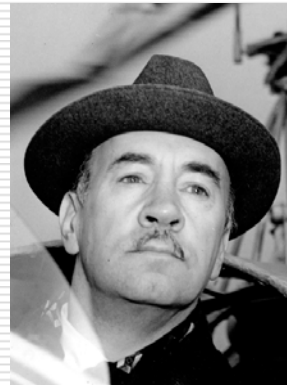
# Some Selected Famous Scientists and Engineers of Ukrainian Origin



**Ivan Pavlovych Pulyui**

2 Feb., 1845 –  
31 Jan., 1918

Physicist, inventor, has been championed as an early developer of X-rays usage for medical imaging.



**Igor Ivanovich Sikorsky**

25 May, 1889 –  
26 Oct., 1972

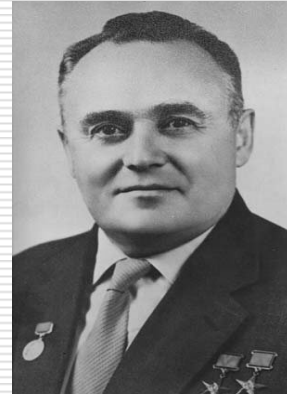
A pioneer of aviation in both helicopters, fixed-wing aircraft; designed and flew the world's first multi-engine fixed-wing aircraft and the first airliner.



**Stepan Prokopovych Tymoshenko**

22 Dec., 1878 –  
29 May, 1972

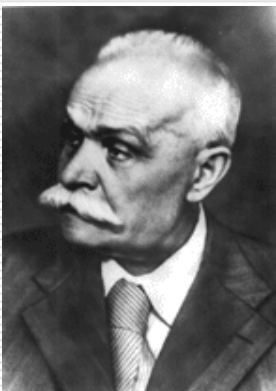
Engineering mechanics, elasticity and strength of materials, Timoshenko beam theory.



**Sergey Pavlovich Korolyov**

12 Jan., 1907 –  
14 Jan., 1966

A rocket engineer and designer.



**Evgeny Oscarovich Paton**

5 Mar., 1870 –  
12 Jul., 1953

Welding and bridge construction engineer, the head of the Institute of Welding, Academy of Science, Ukraine.



**Oleg Konstantinovich Antonov**

7 Feb., 1906 –  
4 Apr., 1984

Aircraft designer, the founder of Antonov ASTC, a world-famous aircraft company in Ukraine.

# Innovation potential of Ukraine

## EDUCATION

Higher educational institutions of the III-IV accreditation levels - **350**

Number of students - **2,245 MI.**

Number of students per **10 thousand** of the population at higher educational institutions of the III-IV accreditation levels – **488**

Ukraine is ranked the **40<sup>th</sup>** in the world by its education level

## SCIENCE

Doctors of science – **17 000.**

Candidate of sciences – **48 000.**

Carried out research –technical works:

- **4400** doctors of science

- **17100** candidates of sciences

-Specific weight of the executed research-technical works volume in GDP – **0,95 %**

## HIGH-TECH COMPANIES

Specific weight of enterprises which introduced innovations - **10,7 %**

Specific weight of sold innovative products in the total industrial output - **4,8%**

In the world competitiveness rating of 2009-2010 Ukraine is ranked **82nd.**

By the “ability for innovations” in 2009-2010 Ukraine is ranked **32nd.**

# **Ukrainian Strategic Priority Directions For Innovation Activities 2003- 2013**

- 1. Modernization of electric power plants, new and renewable energy sources, innovative resource saving technologies;**
- 2. Machine building and instrument making as the basis for high technological updating of all industries, development of high quality metallurgy;**
- 3. Nanotechnologies, micro electronics, information technologies, telecommunication;**
- 4. Improvement of chemical technologies, new materials, development of biotechnologies;**
- 5. High technological development of agriculture and processing industry;**
- 6. Transportation systems, construction and reconstruction;**
- 7. Protection and improvement of people's health and environment;**
- 8. Development of innovation awareness of the society, production of land transportation facilities, aircraft, water transport and connected with them devices and equipment, necessary components, development and introduction of innovative technologies for their production.**

**Law of Ukraine dtd. 16.01.2003 № 433-IV**



# Priority Directions of Scientific and Technical Development Up To 2020

1. Fundamental scientific research for important problems of scientific-technical, social-political, human potential development to ensure competitiveness of Ukraine in the world and sustainable development of the society and country;
2. Information and communication technologies;
3. Power engineering and energy efficiency;
4. Rational environmental management;
5. Life sciences, new technologies in prevention and treatment of most widely disseminated diseases;
6. New substances and materials.

**Law of Ukraine № 2519-VI від 9.09.2010**

# Main Deterrents for Innovation Development in Ukraine

1. Imperfection of Ukrainian legislation on intellectual property;
2. Patenting problems. Absence of experience of patents preparation by Ukrainian patent attorneys.
3. Gap between patenting and implementation;
4. Absence of investment stimulation mechanisms in Ukraine;
5. There is not enough foreign investors in Ukraine.

**We are here to listen and learn from our UNECE colleagues, from the experts from abroad, and from our own Ukrainian experts and government officials.**

**We wish all of you success at this conference, and a warm welcome to Kyiv and Ukraine**

