Science, Libraries and Higher Education: Ukrainian landscape

Yaroshenko Tetiana, PhD
National University of Kyiv Mohyla Academy, Ukraine
National University of Kyiv Mohyla Academy

• Founded in 1615 (till 1815)
• Rebirth in 1991
• Oldest University in Ukraine
• 500+ faculty
• 3,500 Students
• In the top of 1% of the Ukrainian University
National University of Kyiv-Mohyla Academy is:

✓ The oldest university in Eastern Europe, founded in 1615

✓ The leader of national university rankings

✓ A leading member of the Orange Revolution and the Revolution of Dignity

✓ An environment of freedom and university autonomy

✓ The initiator of reform of higher education in Ukraine
Kyiv-Mohyla Academy academic programs:

- 6 Faculties (Schools)
- 32 Departments
- 21 Bachelor Degree programs
- 28 Master Degree programs
- 42 Postgraduate programs
- 11 Doctoral programs Doctoral School (PhD program)
- 35 Research Centers and Laboratories
The mission of National University of Kyiv-Mohyla Academy, as a classic university, is to educate citizens and citizen leaders, to maximize their potential as honest, caring, creative individuals who think independently and act responsibly in accordance with ethical behavior and justice, for the development of an open and democratic society in Ukraine and the world.
Vision

Kyiv-Mohyla Academy, as a research university and leader in innovation, recognized by the international academic community, will continue its mission, and will provide its students an educational experience that is intellectually, socially, and personally transformative, and will continue its historic role to promote a lasting influence on Ukrainian society and the Ukrainian nation.
Kyiv-Mohyla Academy Introduced Innovations in Ukraine:

- Bachelor’s Programs (1992)
- Students choices for courses and trajectory of education (Liberal Arts Education - 1992)
- A rating system of evaluation for credit based on 100 points (1992)
- A 3 semester academic year (1992)
- The possibility of a double major and double specialty (1995)
- Two-year Master’s programs (1996)
- Doctoral programs based on a Western model (2009). These were the first 5 PhD programs based on a 4-year program at a Doctoral School, without any government support.
- A Digital Version of Diplomas from NaUKMA (2012)
- The Electronic Library of Ukraine (access to electronic academic data bases for a Consortium of Ukraine’s universities from a central server) (2010)
- Education in 2 languages – Ukrainian and English (applicants are required to pass an English language exam for admission)
- A 100-grade point rating system of evaluation of knowledge
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First in Ukraine to establish Research Centers in collaboration with Western universities in the following fields:

- Social Work
- Ecology
- Public Health
- Business School
- School of Journalism
- Public Administration
- Center of Membrane Technologies
- Genetics and Clinical Biology
We are proud of our historic heritage with 11 architectural historic landmarks on the university’s campus:

- Church of the Holy Spirit (1830’s)
- Dining Building of Brotherhood Monastery (XVII Century)
- Ancient Academic Corpus built by Ivan Mazepa, 1704
- Church of the Annunciation, 1740
- Circular Corpus (Stepan Kovnir-architect) Ukrainian Baroque, 1756
- Bursa (Dormitory for needy seminarians) 1778-1816
- Abbot’s Building, 1781
- Sun clock, end of XVIII Century
- New Academic Building, 1822-1825
- Monastic Cells Building, 1823-1879
- Addition to Monastery Building (Prosfirnia), 1826 p.
1.5 million collection of print and electronic editions
• Tatiana Omelian Antonovych Undergraduate Library
• Research Library
• Art Library
• Library of Philology
• Library Center for Polish and European Studies
• B. Kytasty American Library
• Omelian Pritsak Memorial Library
• James Mace Memorial Library
• Library of the Pedagogical Research Center for University Preparation
• ELibUkr – Electronic Library of Ukraine (Access to electronic academic data bases to a Consortium of 33 university libraries from a central server at Kyiv Mohyla Library – an initiative of Kyiv Mohyla Academy and Kyiv Mohyla Foundation of America)
Research Centers and Laboratories

1. Legacy and Heritage of Kyiv-Mohyla Academy Research Center
2. Center of European Humanities Research
3. Center for Polish and European Studies
4. School of Political Analysis
5. Center of Membrane Research
6. Institute for Civic Education
7. Legal Center for Innovative Methods of Education
8. Center of Archaeological Expeditions
9. Laboratory for Financial and Economic Research
10. Center of Molecular and Cellular Research
Research Center and Laboratories

11. Center for the Study of Conflicts and Psychoanalysis
12. Center of Testing Technologies
13. Center for Interdisciplinary Studies of World Politics
14. Research Center of Cinematographic Studies
15. Laboratory of Modern Information Technology
16. Research Center of History and Culture of East European Jewry
17. Center of Communication Transformations
18. Research Center of Health and Social Policy
19. Laboratory of Genetics and Cell Biology Department of Biology
20. Research Center for Intercultural Communication of NaUKMA
21. Research Center of Contemporary Literature
22. Research Center Ecosystems, Climate Change and Sustainable Development
23. Centre of Canadian Studies
24. Center of Social Partnership and Advocacy
25. Omelian Pritsak Center of Oriental Studies
26. Center of International Human Rights
27. Research Center of the Rule of Law and its Implementation in Ukraine
28. Center of Investment Analysts
29. Research Center of History Ukraine’s State Building in the XX Century
30. Research Center of the Ukrainian Famine Holodomor
31. Research and Training Center "Innovation Lab"
32. Research and Training Center "Institute for Theological Studies."
33. Interdisciplinary Research and Education Center of Anti-Corruption
34. Research and Training Center "Crimean Studies"
35. Rehabilitation Center for Psychological Trauma and PTSD
National University of Kyiv-Mohyla Academy
Member of International and Professional Organizations

- Association of European Universities (the first university in Ukraine to become a member)
- CIVITAS International
- Artes Liberalis
- Black Sea Universities Network
- Central and East European Universities Network
- Eurasian Political Studies Network
- Association of universities of graduate
VALUES

- Individuality
- Humanism
- Creativity
- Leadership
- Quality
- Trust
- Honesty
- National consciousness
- Democracy – Citizen participation
Mykola Leontovych

- recognized for composing "Shchedryk" in 1904 (which premiered in 1916),

known to the English-speaking world as "Carol of the Bells" or "Ring, Christmas Bells"
Ukraine

- Population - 46,011,300
- Area - 603,628 km
- Official language – Ukrainian
- Kyiv – the capital

History:
- Human settlement in the territory of Ukraine dates back to at least 4500 BC, Neolithic Cucuteni-Trypillian Culture
- Kievan Rus – from the 9th century
Ukraine under Russian Empire

- From 18 century
- 1919-1991 – Soviet Union
- Great Famine (Holodomor) – 7 mln. Ukrainains have died
- Stalin era
OF COURSE I'M HUNGRY!
I'VE BEEN HIBERNATING
SINCE 1991!!"
NEWS
RUSSIAN AGGRESSION AGAINST UKRAINE

STOP RUSSIAN AGGRESSION
Ukraine – is a important producer of scientific data

**Igor Sikorsky** (1889 –1972) - pioneer of aviation, the father of **helicopter**

**Ivan Pulyui** (1845-1918) - physicist, early developer of the use of **X-rays** for medical imaging

**Boris Grabovsky** (1901-1966) – engineer, the first fully electronic **TV** transmitting tube

**Sergey Lebedev** (1902-1974) – the first **computer** in Europe
Ukraine – is a important producer of scientific data

**Sergey Korolyov** (1906-1966) - father of practical astronautics, the pioneer aerospace engineer and the lead Soviet rocket engineer and spacecraft designer during the Space Race between the United States and the Soviet Union in the 1950s and 1960s.

**Stephen P. Timoshenko** (1878-1972) - he father of modern engineering mechanics, elasticity and strength of materials

**Yuri Kondratyuk** (1897–1942), a Ukrainian pioneer of astronautics and spaceflight. He was a theoretician and a visionary who, in the early twentieth century, foresaw ways of reaching the moon. *The author of the so called “Kondratiuk route” - was travelled by the space shuttles Apolo on the way to the Moon.*

**Mykola Amosov** (1913-2002) – a heart surgeon, first at world inventions of several surgical procedures for treating heart defects
The Ukrainian-made Antonov An-225 *Mriya* (Dream) (1988) is the largest aircraft ever built.
Science in Ukraine

National Academy of Science
- 119 Research Institutes
- 47,7 thousand scholars

Ministry of Science and Education
- 800+ higher educational institutions
- 351 – Universities
- Appr. 2,8 mln. students
According to the Ukrainian constitution, access to free education is granted to all citizens.

- Complete general secondary education is compulsory in the state schools which constitute the overwhelming majority.
- Free higher education in state and communal educational establishments is provided on a competitive basis.
- The literacy rate is an estimated 99.4%.
The Ukrainian higher education system comprises higher educational establishments, scientific and methodological facilities under national, municipal and self-governing bodies in charge of education.

- Ukraine produces the **fourth largest number of post-secondary graduates in Europe**, while being ranked seventh in population.
- Higher education is either **state funded or private**.
- Students that study at state expense receive a standard scholarship if their average marks at the end-of-term exams and differentiated test suffice.
- Ukrainian universities confer **two degrees**: the bachelor's degree (4 years) and the master's degree (5–6th year), in accordance with the Bologna process.

- a separate collegiate body to monitor the quality of education;
- each higher education institution has the right to implement its own educational and research programs;
- role of the student government was increased;
- higher education institution has the right freely administer own revenues;
- 5 following types of higher education qualifications were established: Junior Bachelor, Bachelor, Master, Doctor of Philosophy (PhD) and Doctor of Science;
- load on lecturers and students was reduced;
- academic mobility for faculty and students etc.
Libraries in Ukraine

• The oldest Library – The Library of Yaroslav the Wise - the first state library of Kiev Rus (1037)
• Monastery Libraries – Kyevo-Pechersky, Kyevo-Mezhyhirsky, Chernigiv and Pochayiv (from the 11th century)

• Libraries of Lviv, Kyiv, Chernigiv, Lutsk, Ostrog Brotherhoods (the 16th-17th centuries)

• The oldest Universities Libraries in Lviv (1608), Kyiv Mohyla Academy (1615), Kharkiv (1805), Odessa (1817), Kyiv (1834), Chernivtsi (1852)…
Libraries in Ukraine

• 25 000 +
• 18 000 – public libraries
• 800 + – universities libraries
• 900 + - medical libraries
• Total book collection – 400 mln.vol.
Ukrainian Libraries from 1991

"New library policies in Ukraine based on free access to ideas, library materials and services. Intellectual freedom issues are the basis on contemporary library and information policies in Ukraine “


Ukrainian Library Association (found.1995)
V. Vernadsky National Library of Ukraine

- 1918
- The largest library in Ukraine
- one of the main scientific information centers of the Eastern Europe
- 15 millions volumes
Institute of manuscript
(over 500 thousands units of handwritten materials)

Kyiv Glagolic Leaflets
(Kyivs’ki glagolichni lystky)
IX-X centuries

The oldest Slavic translation of the Latin
Missal or Sacramentarium
(the part sang by the priest)
Our treasures

Orshan Gospel
(Orshans’ke Evangelie)
XIII century

The first manuscript written in the Eastern Ukraine
Our treasures

Peresopnytsa Gospel
(Peresopnytske Yevanheliie)
XVI century

Sacred relic of the Ukrainian people, which became the symbol of the Ukrainian spirituality

Four Ukrainian Presidents took the oath of office on the evangelistary
Hetman Pylyp Orlyk's Constitution

The first Constitution of Ukraine (1710)
• 8 mln. Volumes
• unique collections of incunabula, paleotypes and other old-printed books of 15th -19th c. (250,000)
• Ukrainian and foreign periodicals of 19th– first half of 20th c. (3 mln)
• maps of 16th -17th c. (20,000 +)
• Ukrainian and world art of 16th-beginning of 20th c. : engravings, drafts, watercolors, gouache paintings, printed music and works of foreign composers (350,000+)
• manuscript documents of 11th-20th c. (140,000 of archival units)
Кормча IV титулів без тлумачень.
Пергамент. Остання чв. XI – поч. XII ст.
Kormcha of IV Titles. Parchment.
Last Quarter of the 11th – Beginning of the 12th c.
Апостол апракос повний (Бибельський Апостол). Пергамент. Початок XIV ст.
АДЕЛАФОТЫС. Грамматика доброглаголиваго еллинословенскаго языка. – Львів: друк. Ставропігійського братства, 1591 р.

Jode G. de. Geographical Map of the richest Kingdom of Poland. – Antwerp, 1593.

Браун І., Гогенберг Ф. Головні міста світу. – Кьольн, 1581р.

Braun G., Hogenberg F. Principal Cities of the World.- Cologne , 1581.
Project Participation

Partner:  *The Ossolinski National Institute*  (*Wroclaw, Poland*)

Project start:  2004

Subject:  digitalization of manuscripts documents:
Polish archives in VSNSL of Ukraine in Lviv
Ukrainian archives in The ONI

Amount of digitalized units:  more than 2 millions

Partner:  *Hill Museum and Manuscript Library of St. John's Abbey and University in Collegeville, MN*  (*USA*)

Project start:  2007

Subject:  digitalization of religious manuscript codices

Amount of digitalized units:  700 codices (more than 250,000 sheets)
World Digital Library – since 2010
National libraries

- National Parliamentary Library
  - Founded 1882
  - Main Library for all Public libraries
  - Information Center for Ukrainian Parliament

- National Medical Library

- National Children Library

- Ukrainian Book Chamber
179 000 scholars
• 84,4 Doctors of Science
• 1500+ journals
• 170 000 articles annually

BUT:
• Circulation for print journals – 200-300 copies
• 90% - only in Ukrainian
• Web of Science – only 19
• SCOPUS – 60
• University Libraries can’t subscribe foreign journals...

“Well, in our country,” said Alice, still panting a little, “you’d generally get to somewhere else-if you ran very fast for a long time, as we’ve been doing.”

”slow sort of country!” said the Queen. “Now, here, you see, it takes all the running you can do, to keep in the same place... If you want to get somewhere else, you must run at least twice as fast as that!”
Open Access

• Strong growth in availability of OA publishing options and their take-up
  – 2/3 of world journals offer immediate OA option
  – Immediate OA accounted for 17% of global articles in 2014
  – 27% world articles available by 24 months after publication

• 3,045 OA repositories globally

• 9,186 peer reviewed OA journals globally
OA in UKRAINE

100 Repositories

1500+ journals
OA mandates


• ”open access to research outputs created with the funding from the state budget of Ukraine”
Open Access to Knowledge
University Libraries Statement (2009)

- **2007 OA mandate** in the World
- Appeal to Ukrainian government, researchers, Universities and research institutions, academic journal publishers, university libraries
Olvia declaration of the Universities in Ukraine: Academic Freedom, University Autonomy, Science and Education for Sustainable Development

- Academic freedom includes open access to information through the development of open repositories and open access journals …
- Open access to information is a significant part of the research in today's globalised world, a key to further development of science, education and society, and Ukraine's integration into the global academic community
The national repository of scientific periodicals
250,000 open access articles from 1,500 academic journals
23– embargo
60 Ukrainian journals
NaUKMA Journals
Kyiv-Mohyla Journal

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National University of “Kiyv-Mohyla Academy”

Theory and Practice of Communications
Електронний архів Національного університету "Києво-Могилянська академія"
Access to world scientific resources
http://www.elibukr.org/
• $25 mln. Bill and Melinda Gates Programme (since 2009)

• modernizing access to information in public libraries (Equipping 1,500 public libraries + Trainings)
Library Electronic Access Project

- US Government projects on linking public libraries to the Internet (since 2001)
- $1,500,000
- 150 public libraries in Ukraine
- The goal of this program is to support Ukrainian citizens’ access to information, a cornerstone of democracy
LEAP Centers in Ukraine
Thank you!
Questions?

yaroshenko[at]ukma.edu.ua

www.ukma.kiev.ua

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