

**2014 IEEE International Conference on  
Intelligent Energy and Power Systems  
(IEPS)**

**CONFERENCE PROGRAM**

**June 2-6, 2014  
Kyiv, Ukraine**

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## FINANCIAL SUPPORT



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## CONFERENCE COMMITTEES

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	<p><b>Prof. Yuriy Yakymenko,</b> Academician, First Vice Rector of National Technical University of Ukraine “Kyiv Polytechnic Institute” (NTUU “KPI”), Head of Microelectronics Department, Faculty of Electronics, IEEE Senior Member, Ukraine  </p>
	<p><b>Prof. Valerii Zhuikov,</b> Dean of Faculty of Electronics, NTUU “KPI”, Chairperson of IEEE Ukraine Section, Kyiv, Ukraine  </p>
<b>Publication Chairperson:</b>	<p><b>Dr. Liudmyla Gorodzha,</b> Institute of Electrodynamics of NASU, Executive Managing Editor of Scientific &amp; Applied Magazine "Technical Electrodynamics", Kyiv, Ukraine </p>
<b>Finance Chairperson:</b>	<p><b>Prof. Julia Yamnenko,</b> National Technical University of Ukraine “Kyiv Polytechnic Institute”, Director of Fund “Lady of Science”, Kyiv, Ukraine  </p>


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	Ukraine  
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## SCHEDULE OF CONFERENCE

<b>02.06.2014</b>	<b>Arrive and registration</b>
<b>03.06.2014</b>	<b>Registration, opening ceremony, plenary session, lunch, oral &amp; poster sections, welcome party</b>
<b>04.06.2014</b>	<b>Oral &amp; poster sections, lunch, excursion</b>
<b>05.06.2014</b>	<b>Closing ceremony</b>
<b>06.06.2014</b>	<b>Departure or Free day</b>



**02.06.2014**

**ARRIVE AND REGISTRATION**

NTUU "KPI", Academic Building #1 (09:00 – 18:00)

**03.06.2014**

**REGISTRATION**

NTUU "KPI", Academic Building #1, Hall of Scientific Council (09:00 – 10:00)

**OPENING CEREMONY**

NTUU "KPI", Academic Building #1, Hall of Scientific Council (10:00 – 10:30)

**Prof. Borys Stognii,**

Academician, Head of the Department of Physical-Technical Problems of Power Engineering of National Academy of Sciences of Ukraine, Institute of Electrodynamics of NASU, Kyiv, Ukraine

**Prof. Michael Zgurovsky,**

Academician, Rector of National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine

**PLENARY SESSION**

NTUU "KPI", Academic Building #1, Hall of Scientific Council (10:30 – 13:00)

**Podoltsev O.D., Kucheryava I.M.**

"Multiscale and Multiphysics Modeling in Electrical Engineering"

**Stognii B.S., Kyrylenko O.V., Butkevich O.F.**

"Smart Grid and present-day reality of the Ukrainian Interconnected Power System"

**COFFEE-BREAK**

NTUU "KPI", Academic Building #1, "Alma Mater" (11:30 – 12:00)

**Jon Clare, Bozhko S.**

"Advanced Modelling and Simulation Methods for More-Electric Aircraft Electric Power Systems"

**Peresada S.M.**

"Modern Electromechanical Systems: Advances and Trends"

**LUNCH**

NTUU "KPI" (13:00 – 14:00)

## SECTION 1. MODERN ENERGY SYSTEMS AND POWER ELECTRONICS

### ORAL

NTUU "KPI", Library, Hall #15 (14:00 – 15:30)

#### Chairpersons of Section:

Prof. Valerii Zhuikov, Prof. Mihail Artemenko

#	Authors	Title
1	Valerii Mykhalskyi, Volodymyr Sobolev, Vasyl Chopyk, Serhii Polishchuk and Ivan Shapoval	Matrix Converter Control Strategy Maximizing Reactive Power Transfer
2	Maksym Shcherba	Dependences Of Electric Field Amplification During Water Tree Branching In Solid Dielectrics
3	Ievgen Pichkalov, Yulia Yamnenko and Tetiana Tereshchenko	Resources Save Control of Hybrid Uninterruptible Power Supply Systems
4	Liisa Liivik, Dmitri Vinnikov and Tanel Jalakas	Synchronous Rectification in Quasi-Z-Source Converters: Possibilities and Challenges
5	Andrii Chub, Oleksandr Husev and Dmitri Vinnikov	Passive Modular Structure of a SEPIC Based DC/DC Converter
6	Valentin Oleschuk and Vladimir Ermuratskii	Dual-Inverter-Based Photovoltaic System with Discontinuous Synchronized PWM

### COFFEE-BREAK & POSTERS

NTUU "KPI", Library, Floor #6 (15:30 – 16:00)

#	Authors	Title
1	George Zhemerov and Dmitry Tugay	Energy Saving in Smart Grid Systems with Trunk Mode of Customer Connection
2	Valery Zhuikov, Eugene Verbitskiy and Anna Kyselova	Kotelnikov double series of modulating signals with limited spectrum
3	Legnuk Peter and Netrebskiy Volodimir	Selfoptimization of Electric Systems Modes as Hamilton Principle Manifestation
4	Dmytro Kucherenko and Pavlo Safronov	A Comparison of Time Domain Harmonic Detection Methods for Compensating Currents of Shunt Active Power Filter
5	Anatolii Shcherba and Nataliia Suprunovska	Study Features Of Transients In The Circuits Of Semiconductor Discharge Pulses Generators With Nonlinear Electro-Spark Load
6	Mikhailo Artemenko and Larisa Batrak	Multivariate Proportional-Vectorial Control Strategy for Shunt Active Filter of Three-Phase Four-Wire Power System
7	Oleksandr Bondarenko, Iuliia Bondarenko, Pavlo Safronov and Volodymyr Sydorets	Effective Circuit Topology of DC Power Supply for Micro Resistance Welding
8	Luigi Vanfretti, Tetiana Bogodorova and Maxime Baudette	Power System Model Identification Exploiting the Modelica Language and FMI Technologies
9	Volodymyr Avramenko, Pavlo Chernenko and Vitalyi Prykhno	Supervision Of The Current Stability Level Of A Power Grid
10	Yurii Tugai and Iryna Tugai	Combined Method for Study of Ferroresonance Processes in Voltage Transformer
11	Anatolii Shcherba and Dmitry Makov	A Method Of Determination Of Fundamental Frequency's Symmetric Sequences And Higher

		Harmonics Of Three-Phase Voltage Systems
12	Yurii Tugai and Alexander Besarab	The Mathematical Model of Voltage Transformers for the Study of Ferroresonant Processes
13	Viktor Zozulev, Dmitro Sholokh, Sergei Podolnyi and Andrei Kaliuzhnyi	Basic concepts for the power semiconductor magnetic-pulse devices improving effectiveness overview
14	Ryszard Strzelecki and Piotr Mysiak	A Hybrid, Coupled Reactors based 18-Pulse Diode Rectifier with Active Power Filter
15	Fei Gao, Serhiy Bozhko, Seang Yeoh, Greg Asher, Patrick Wheeler	Stability of Multi-Source Droop-Controlled Electrical Power System for More-Electric Aircraft

**ORAL**

NTUU "KPI", Library, Hall #15 (16:00 – 17:00)

**Chairpersons of Section:**

Prof. Valerii Zhuikov, Prof. Mihail Artemenko

#	Authors	Title
1	Hrygorii Varskyi, Serhii Tankevych and Viacheslav Hrechko	Design Features of Electromagnetic Transducer as a Part of Electronic Current Transformer
2	Jawad Faiz and Ghazanfar Shahgholian	Modeling and Damping Controller Design for Static VAR Compensator
3	Syed Furqan Rafique, Z.Y Xu and Akif Zia Khan	Improved ANN based impedance estimator for Phase to ground faults in UHV Transmission line
4	Ahsan Ashfaq, Sun Yingyun and Akif Zia Khan	Optimization of Economic dispatch problem integrated with stochastic demand side response
5	Billel Ali Rachedi and Abdessalem Babouri	Evaluation of Electromagnetic Field Produced by Multi-Parallel High Voltage Lines
6	Pouya Ghadimi, Sami Kara and Bernard Kornfeld	Reactive Modelling of On-site Energy System Components for Real-time Application

**WELCOME PARTY**

NTUU "KPI", Academic Building #1, "Alma Mater" (17:30 – 19:30)

**04.06.2014**

**SECTION 2. RENEWABLE ENERGY SYSTEMS AND DISTRIBUTED GENERATION**

**ORAL**

NTUU "KPI", Library, Hall #15 (09:00 – 10:30)

**Chairpersons of Section:**

Prof. Sergii Denysiuk, Dr. Anton Steliuk

#	Authors	Title
1	Akif Zia Khan, Sun Yingyun and Ahsan Ashfaq	Generation Expansion Planning Considering Externalities for Large Scale Integration of Renewable Energy
2	Oleksandr Veligorskyi, Roman Kosenko and Serhii Stepenko	High-Efficiency Solar Tracker Development and Effectiveness Estimation
3	Valery Zhuikov and Kateryna Osypenko	Compensator currents form determination considering wind generator aerodynamic resistance
4	Lukian Lukianenko, Igor Goncharenko and Olga Blonska	Determination of the Optimal Placement and Capacity of Distributed Generation
5	Mohamed Louzazni, Elhassan Aroudam	Control and Stabilization of Three-Phase Grid Connected Photovoltaics using PID-Fuzzy Logic

**COFFEE-BREAK & POSTERS**

NTUU "KPI", Library, Floor #6 (10:30 – 11:00)

#	Authors	Title
1	Igor Blinov and Evgen Parus	Approach of reactive power pricing for ancillary service of voltage control in Ukraine
2	Boris Stognii, Vladimir Pankiv and Eugene Tankevych	Iterative Calculation of Electromagnetic Processes in the Current Transformer by the Approximated Magnetization Curve
3	Denysiuk Sergiy and Taras Baziuk	Algorithms For Optimal Mode Selection Of Energy Prosumer
4	Olexandr Kyrylenko, Vsevolod Pavlovsky and Anton Steliuk	AGC software model validation for identification of renewables impact on frequency control in the IPS of Ukraine
5	Vsevolod Pavlovsky, Lukian Lukianenko and Andrey Zaharov	Software poly-models of solar photovoltaic plants for different types of system studies

## SECTION 3. INTELLIGENT AND ADAPTIVE SYSTEMS IN SMART GRID

### COFFEE-BREAK & POSTERS

NTUU "KPI", Library, Floor #6 (10:30 – 11:00)

#	Authors	Title
1	Thomas Pfeiffenberger and Jia Lei Du	Evaluation of Software-Defined Networking for Power Systems

### ORAL

NTUU "KPI", Library, Hall #15 (11:00 – 13:00)

#### Chairpersons of Section:

Prof. Oleksandr Butkevich, Dr. Lukian Lukianenko

#	Authors	Title
1	Sarmad Majeed Malik, Sun Yingyun and Akif Zia Khan.	Implementation of Intelligent AGC in PSAT for optimal use in Smart Grids
2	Sara Feliciano, Helena Sarmiento and João Oliveira.	Field Area Network in a MV/LV Substation: a technical and economical analysis
3	Erdogan Dogdu, A. Murat Ozbayoglu, Okan Benli, Hulya Erdener Akinc, Erdeniz Erol, Tugrul Atasoy, Ozan Gurec and Ozden Ercin.	Decision Support Systems for Smart Grid: A Distribution Service Operator Perspective
4	Siyamak Sarabi and Laid Kefsi.	Electric Vehicle Charging Strategy based on a Dynamic Programming Algorithm
5	Manuel Loesch, Dominik Hufnagel, Sebastian Steuer, Tillman Faßnacht and Hartmut Schmeck	Demand Side Management in Smart Buildings by Intelligent Scheduling of Heat Pumps
6	Oleg Lenga	Application of critical clearing time as a transient stability criterion for power system expansion planning
7	Pouya Ghadimi, Sami Kara and Bernard Kornfeld	Reactive Modelling of On-site Energy System Components for Real-time Application

### LUNCH

NTUU "KPI" (13:00 – 14:00)

## SECTION 4. INDUSTRIAL ELECTRONICS AND ELECTRICAL DRIVES

### ORAL

NTUU "KPI", Library, Hall #15 (14:00 – 15:30)

#### Chairpersons of Section:

Prof. Sergei Peresada, Dr. Ivan Shapoval

#	Authors	Title
1	Marius Klytta, Pawel Szczesniak, Zbigniew Fedyczak and Igor Korotyeyev	Alternative Drive Solution with Matrix Converter fed Permanent Magnet Synchronous Motor
2	Mykhaylo Zagirnyak, Tetyana Korenkova and Viktoriya Kovalchuk	Estimation of Electromechanical Systems Power Controllability According to Instantaneous Power Components
3	Serhii Dymko, Sergei Peresada and Roberto Leidhold.	Torque Control of Saturated Induction Motor with Torque per Ampere Ratio Maximization
4	Sergei Peresada, Sergey Kovbasa, Vladimir Trandafilov and Vladimir Pyzhov	Sliding Mode Observer Based Control of Induction Motors: Experimental Study
5	Sergei Peresada, Sergey Kovbasa and Dmitriy Prystupa	Adaptive Observers for Self Commissioning of Induction Motor Drives: Theory and Experiment
6	Jawad Faiz, Mehdi Manoochehri and Ghazanfar Shahgholian.	A Novel Robust Design for PMSM with Minimum Motor Current THD based on Improved Space Vector Modulation Technique
7	Puvan Arumugam, Anthony Aigbomian, Weeramundage Fernando, Serhiy Bozhko and Chris Gerada.	Comparative Design Analysis of Permanent Magnet Rotor Topologies for An Aircraft Starter-Generator

### COFFEE-BREAK & POSTERS

NTUU "KPI", Library, Floor #6 (15:30 – 16:00)

#	Authors	Title
1	Artur Abdullin and Nikolai Poliakov	Synthesis of a phase locked loop system for a control system of the three-phase active voltage rectifier
2	Konstantin Akinin	Research of Braking Mode of Permanent Magnet Brushless Motors without Special Brake Devices

### BUS EXCURSION

(19:30 – 22:30)

**05.06.2014**

**CLOSING CEREMONY**

Ethnographic complex "Ukrainian Village" (<http://etno-selo.com.ua/index.php?lang=en>)

10:00 – 19:00

At the Closing Dinner you will taste the Ukrainian national cuisine.

**06.06.2014**

**DEPARTURE OR FREE DAY**

# Welcome to Kyiv!

## LOCATION

Ukraine is a country in Eastern Europe. Ukraine borders the Russian Federation to the east and northeast, Belarus to the northwest, Poland, Slovakia and Hungary to the west, Romania and Moldova to the southwest, and the Black Sea and Sea of Azov to the south and southeast, respectively. It has an area of 603,628 km<sup>2</sup>, making it the second largest contiguous country on the European continent, after the Russian Federation.

Kyiv is the capital and largest city in Ukraine. The population of Kyiv is nearly 3 million people. It is also a cultural, scientific, economic and politic center of Ukraine. All central government departments and all foreign embassies are in Kyiv. **Kyiv Boryspil International Airport, International Airport Kyiv** and **Kyiv Central Railway Station** are situated in Kyiv.

## KYIV BORYSPIL INTERNATIONAL AIRPORT

Web site: <http://kbp.aero/en/>

Boryspil International Airport State Enterprise is the busiest airport in Ukraine providing around 65 % of passenger air traffic of Ukraine and handling over 8 million passengers per year. It is 39 km from Kiev city centre.

Boryspil airport is conveniently situated at the intersection of many air routes connecting Asia with Europe and America. Around 50 national and international airlines operate regular flights carrying passengers and cargo to over 100 destinations worldwide.

List of maps:

**Terminal B:** <http://kbp.aero/en/about/maps/terminal-b/>

**Terminal F:** <http://kbp.aero/en/about/maps/terminal-f/>

**Terminal D:** <http://kbp.aero/en/about/maps/terminal-d/>

To get free access to the Internet via the airport's Wi-Fi, select and connect to the **Free Boryspil WiFi** network.

## INTERNATIONAL AIRPORT KYIV

Web site: <http://www.airport.kiev.ua/en/>

Kiev (Zhulyany) International Airport is one of two passenger airports in the capital of Kiev. It is located in the Zhulyany neighborhood in the south of the city and is 8 km from Kiev city centre.

## KYIV PASSENGER RAILWAY STATION

Web site: <http://www.vokzal.kiev.ua/>

The Kiev Metro station Vokzalna is adjoining the complex, constituting the station's main intersection with city transport.

## RULES FOR PARTICIPATION

**Official Language:** English

**Size of the poster:** A1.

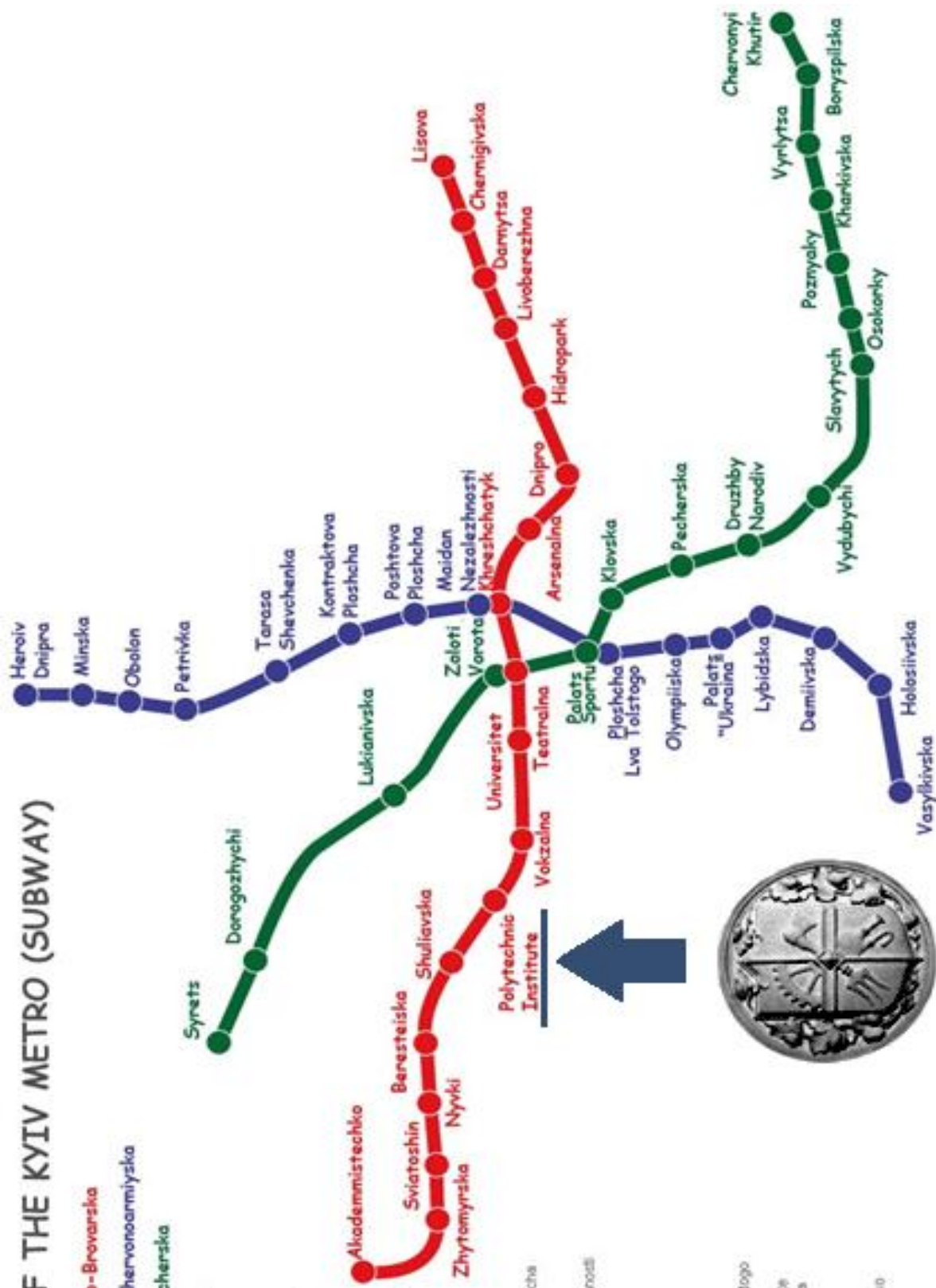
**Duration of oral presentation:** 10 min.

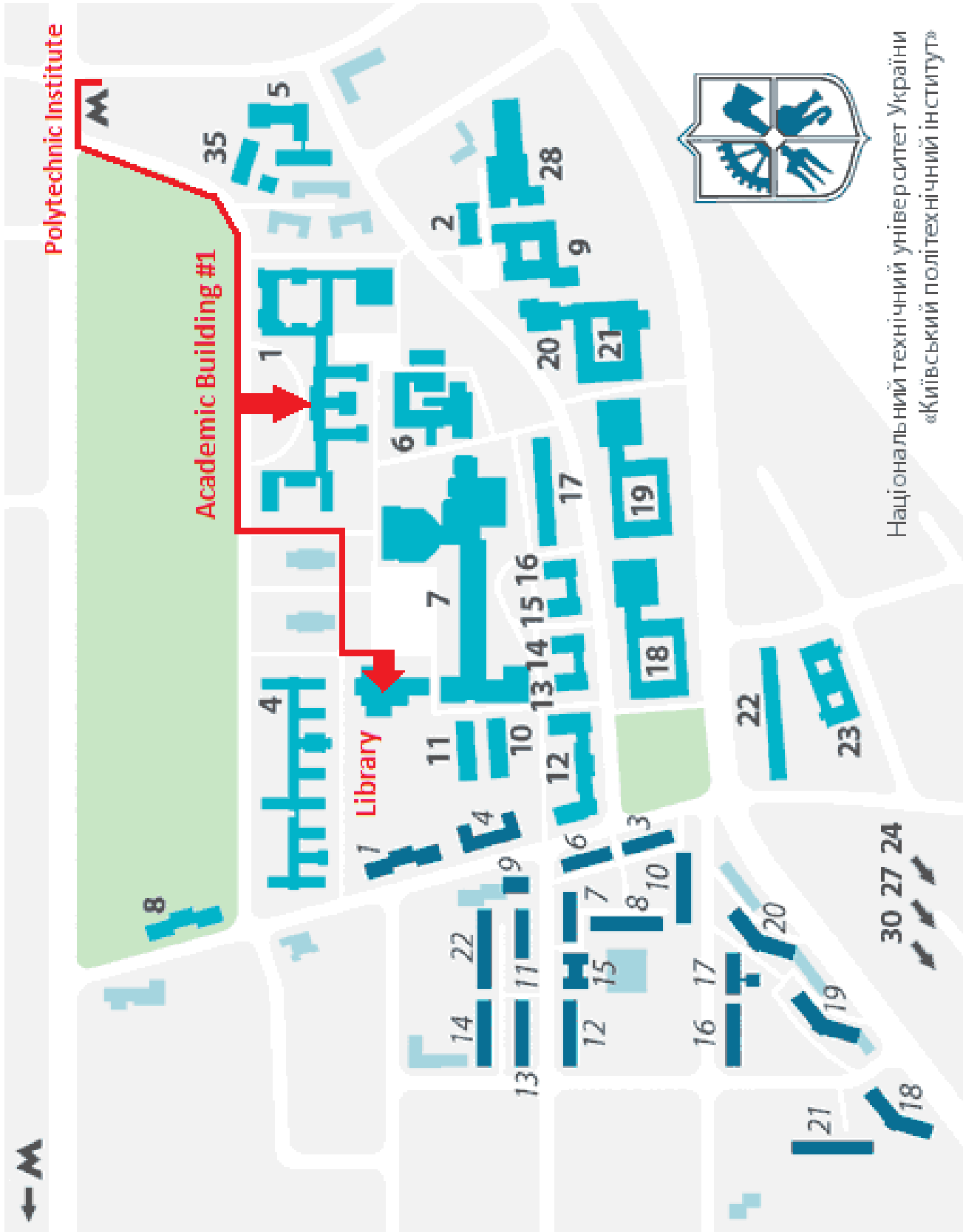


# SCHEME OF THE KYIV METRO (SUBWAY)

- **Sviatoshynska - Brovarska**
- **Kurenivska - Chervonoarmiyska**
- **Syretsko-Pecherska**

- Akademmistechko
- Arsenalna
- Beresteiska
- Boryspilska
- Chernigivska
- Chervoniy Khutir
- Darnytsa
- Demivska
- Dnipro
- Dorogozhychi
- Druzhby Narodiv
- Heroiv Dnipro
- Hidropark
- Holosivska
- Kharkivska
- Khreshchatik
- Khovska
- Kontraktova Ploshcha
- Livoberezhna
- Lybidiska
- Maidan Nezalezhnosti
- Minska
- Myrni
- Obolon
- Olimpiiska
- Palats "Ukraina"
- Pecherska
- Ploshcha Lva Tolstogo
- Pozniaky
- Polytechnic Institute
- Posttova Ploshcha
- Shuliivska
- Sviatoshyn
- Syrets
- Tarasa Shevchenko
- Teatralna
- Universytet
- Vasylivska
- Volzaha
- Vynlytsa
- Zhytomyrska
- Zoloti Vorota (Golden Gate)





Національний технічний університет України  
«Київський політехнічний інститут»