ORGANIZING COMMITTEE

Philippov Vladimir (RUDN University)  Ibatulina Sophiya (RUDN University)
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Dovletyarova Elvira (RUDN University)  Pavel Konstantinov (LMSU)
Co-chair of the organizing committee  Leonid Voskresensky (RUDN University)
Vasenev Viacheslav (RUDN University)  Konstantin Samuilov (RUDN University)
Co-chair of the organizing committee  Hajiaghayeva Ramilla (RUDN University)
Hajiaghayeva Ramilla (RUDN University)  Ibatulina Sophiya (RUDN University)
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Irina Veretelnikova (RSAU-MTAA/RUDN)  Bhuban Bhavish (RUDN University)

SCIENTIFIC COMMITTEE

Valentini Riccardo (Italy)  Abakumov Eugeny (Russia)
Philippov Vladimir (Russia)  Rik Leemans (Netherlands)
Morel Jean Louis (France)  Ananyeva Nadezhda (Russia)
Plyushchikov Vadim (Russia)  Shenghui Cui (China)
Thomas Nehls (Germany)  Prokofieva Tatyana (Russia)
Vasenev Ivan (Russia)  Cheng Zhongqi (Joshua) (USA)
Kuzyakov Yakov (Germany/Russia)  Sergey Chalov (Russia)
Kenneth Gould (USA)  Vasenev Viacheslav (Russia)
Kasimov Nikolay (Russia)  Stoorvogel Jetse (Netherlands)
Calfapietra Carlo (Italy)  Andrey Smagin (Russia)
Voskresensky Leonid (Russia)  Lal Rattan (USA)
Paolo De Angelis (Italy)  Dovletiarova Elvira (Russia)
SESSION

S.1 Monitoring and environmental impact assessment in urban ecosystems

S.2 Green infrastructure and nature-based solutions for sustainable cities

S.4 Urbanization effect on climate, air and water quality (PEEX "Pan-Eurasian Experiment" Session)

S.6 Soil pollution and remediation.

S.7 Biogeochemical cycles in urban soils and ecosystems.

S.8 Urban farming: challenges and perspectives

S.9. Assessment, modelling and mappings urban ecosystems

S.10 Health risks in urban environment

S.12 Urban planning for sustainable city development (Jean Monnet Session)

WORKSHOPS

W.1 Internet of skills and emerging networks in a sustainable city.

W.2 Green chemistry for the future sustainable urban development

ROUND TABLES

T1. Current opinions on sustainable urban development: from science to policy-makers

T2. Advance technologies for sustainable urban development: from science to practitioners

T3. Excellences and knowledge gaps in urban sustainability: from science to education
<table>
<thead>
<tr>
<th>Time</th>
<th>Day 1 (May 23, Wed)</th>
<th>Day 2 (May 24, Thu)</th>
<th>Day 3 (May 25, Fri)</th>
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<tr>
<td>9.00-9.30</td>
<td>Registration*</td>
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<td>Key-note from Rattan Lal (video-lecture)</td>
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<td>13.30-14.00</td>
<td>Session 7</td>
<td>Round table 1*</td>
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<td>Coffee-break</td>
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<td>Session 10</td>
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<td>16.30-17.00</td>
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<td>Round table 2</td>
<td>Round table 3</td>
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<td>17.00-17.30</td>
<td>Group Photo.</td>
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<td>17.30-18.00</td>
<td>Excursion in RUDN</td>
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### Location

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<tbody>
<tr>
<td>Hall A</td>
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<td>ATI RUDN Hall 1</td>
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<td>Hall D</td>
<td>RUDN Scientific Council hall</td>
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<td>RUDN Canteens</td>
<td>Galaktica/ City/ Main building</td>
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<td>ATI reception</td>
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23 MAY

REGISTRATION
Starts 9.00 and available during SSC-2018
ATI RUDN, lobby

OPENING CEREMONY
Hall A 10.00-11.00

V.M. Philippov (Chair of the organizing committee, Rector of RUDN University, Russia)

Riccardo Valentini (Noble Prize Laureate as a member of IPCC, Tuscia University, Italy/ RUDN University, Russia)

E.V. Ugrinovich (Director of the International Center for Scientific and Technical Information)

Rik Leemans (Noble Prize Laureate as a member of IPCC, Wageningen University, Netherlands)

A.O. Kulbachevskiy (Moscow city government, Director of the Department for environmental management and protection of Moscow city, Russia)

Z.M. Zotova (Moscow city parliament)

T.V. Khabarova (Head of the UN Habitat program in Russia)

PLENARY SESSION

Green solutions for sustainable development
Conveners: E.A. Dovletyarova (RUDN University, Russia)

V.I. Vasenev (RUDN University, Russia)

Hall A 11.00-12.30

11.00-11.10 IUSS to Russia R. Lal (President of the IUSS, professor of Ohio State University, USA )

11.01-11.30 New generation technologies to monitor, assess and model ecosystem services of urban green infrastructure

R. Valentini (Tuscia University, Italy/ RUDN University, Russia)

11.30-11.50 Nature-Based solutions for sustainable city development

C. Calfapietra (IBAF CNR, Italy)

11.50-12.10 Microplastic in soil

M. C. Rilling (Free University of Berlin, Germany)

12.10-12.30 Urbanization effect on soil functions and ecosystem service

V.I. Vasenev (RUDN University, Russia)

COFFEE-BREAK
ATI RUDN Lobby 12.30-13.00

Round table 1

Current opinions on sustainable urban development: from science to policy-makers
Conveners: E. V. Ugrinovich (International Center for Scientific and Technical Information),
SSC-2018: Green technologies and infrastructure to enhance urban ecosystem services
Russia Moscow 23-25 May 2018

R. Valentini (Tuscia University, Italy/ RUDN University, Russia)
Hall A 13.00-14.30

SESSION 7
Biogeochemical cycles in urban soils and ecosystems
Conveners: N.D. Ananyeva (Russian Academy of Sciences, Russia)
Y. Kuzyakov (RUDN University, Russia)
Hall B 13.00-14.30

13.00-13.15 Urban soils as hotspots of anthropogenic carbon accumulation: Review of stocks, mechanisms and driving factors Y. Kuzyakov and V. Vasenev (RUND University, Russia)

13.15-13.30 Soil CO2 and CH4 fluxes under different land cover types of a university campus recreation area in Vladivostok L. Beelli et al (FEFU, Russia)

13.30-13.45 Effects of the road deicing practices on C allocation and gas exchange in urban lawn ecosystems O. Gavrichkova et al (IBAF CNR, Italy/ RUDN University Russia)

13.45-14.00 Microbial activity and functional diversity in various substrates applied for urban soils K. Ivashchenko et al (Russian Academy of Sciences/ RUDN University, Russia)

14.00-14.15 Features of the distribution of arsenic, mercury, lead, copper and nickel in the megalopolis soils on the territory of the Moscow landscape reserve «Teply Stan» E. Stanis et al (RUND University, Russia)

14.15-14.30 Carbon dioxide soil emission in urban and peri-urban areas of Eurasian boreal and polar zones A. Dolgikh et al (Russian Academy of Sciences)

SESSION 1
Monitoring and environmental impact assessment in urban ecosystems
Conveners: P.V. Zakharova (MOSECOMONITORING, Russia)
S. Tanikawa (NYC Soil & Water Conservation District, USA)
T. Morin (Urban Soil Institute, USA)
Hall A 14.30-16.00

14.30-14.45 Clean soil bank D. Walsh (NYC Office of Environmental Remediation, USA)

14.45-15.00 Smart technologies and reference site options for urban soils environmental monitoring in the northern part of Moscow megalopolis I. Vasenev et al (RSAU-MTAA, Russia)

15.00-15.15 Fungi-to-bacteria ratio in urban and natural soils N. Ananyeva (RAS, Russia)

15.15-15.30 Evaluation of the urban aquatic ecosystems stability with using of algoindication A. Burdo et al (Saint-Petersburg State University, Russia)

15.30-15.45 P. Zakharova (MOSECOMONITORING, Russia)

15.45-16.00 New York City Urban Soils Institute: Soils to the People T. Morin and R. Shaw (Urban Soil Institute, USA)
Use of GIS and remote sensing to study the prospective dynamics of land use and land use in the small kouffo watershed in Benin G. Tovide (Laboratory of biogeography and environmental expertise, Benin)

Workshop 2
Green chemistry for the future sustainable urban development

Conveners: Dr Alexey Bilyachenko (Research Institute of chemistry, RUDN University, Russia)
Prof. Dmitri Gelman (Hebrew University, Jerusalem, Israel)

Hall B 14.30-16.00

14.30-14.45 Can organic synthesis prevent climate change? D. Chusov et al (Russian Academy of Sciences, Russia)

14.45-15.00 Production of Hydrogen via Transition Metal Catalysed Dehydrogenation N. Belkova et al (Russian Academy of Sciences, Russia)

15.00-15.15 Novel Ir(III)-PC(sp3)P Bifunctional Catalysts for Production of H2 by Dehydrogenation of neat Formic Acid: Experimental and Theoretical Study D. Gelman et al (The Hebrew University, Israel)

15.15-15.30 Proton-Hydride Transfer and BH/XH (X=O,N) Activation by the Assistance of Metal Atom I. Golub et al (RUDN University, Russia)

15.30-15.45 Compound-specific isotope analysis as a tool for tracing environmental fate of organic pollutants F. Gelman (Geological Survey of Israel, Israel)

COFFEE-BREAK
ATI RUDN Lobby 16.00-16.30

GROUP PHOTO
In front of ATI RUDN 16.30-17.00

Excursion in ATI RUND
17.00-18.00

POSTER SESSION
RUDN Canteen 18.00-19.00

Comparison of urban-rural thermal reactions based on local climate zone approach and satellite images from two medium-sized cities with mid-latitude climate J. Unger et al (University of Szeged, Hungary)

The influence of urban soils on the decorative qualities of common lilac (Syringa vulgaris L.) growing in the park zone of the Lomonosov Moscow State University R. A. Borovik et al (LMSU, Russia)

Modern Approach to the Transformation of Landfills Into Recreational Spaces O.V. Kostochkina et al (RUDN University, Russia)

Novel method for CO utilization by reductive alkylation of carbonyl compounds E.A. Kuchuk et al (INEOS RAS, Russia)

Relict floodplain forests as refugium of rare and protected species within the city: black alder forests study in Izmailovo natural and historical park I. I. Istomina et al (RUDN University, Russia)

Hidden Potential of Carbon Monoxide for the Reductive Formation of C-N Bond A. A. Tsygankov et al (RUDN University, Russia)

Estimation of air quality improvement potential of the most abundant tree species in alleys of the Belgrade metropolitan area (Serbia) D. Djunišijevic-Bojovic (University of Belgrade, Serbia)

Submicroscopic diagnostics of organic matter forms and urban soils microorganization in South Russia S.N. Gorbov et al (Southern federal university, Russia)

Heavy metals in soils of urbanized landscapes: regularities of scattering and profile distribution O.S. Bezuglova et al
Ecological functioning assessment of lawn soil constrictions in Moscow megapolis A.S. Shepeleva & V.I. Vasenev (RUDN University, Russia)

Influence of forest fires on soil cover of Usmanskiy Pine J.S. Gorbunova et al (Voronexh State University, Russia)

Evaluation of peat stability under various temperature and moisture conditions I.P. Brianskaia (RUDN University, Russia)

The C-use efficiency by microorganisms of various substrates applied for urban soils construction E. Lepore et al (RUDN University, Russia/Tuscia University, Italy)

Assessment of soil pollution with heavy metals in urban areas of the Kola Arctic N.V. Saltan & E.A Sviatkovskaya. (Russian Academy of Sciences)

Microbial properties of urban soils with different land-use history in New Moscow S.A. Ibatulina et al (RUDN University, Russia)

Influence of environmental factors on the development and survival of Toxocara sp. eggs in various soil substrates V.V. Erofeeva & V.I. Vasenev (RUDN University, Russia)

Biosecurity of urban ecosystems in the Kirov region V.V. Erofeeva & O.V. Maslenikova (RUDN University, Russia)

What should be urban education? Playgrounds with care for children D.A. Inginitskaya et al (RUDN University, Russia)

Urban land-use planning for sustainable urban development O.A. Antipov et al (RUDN University, Russia)

Temporal changes of plantation diversity at parks in resent 30 years for the case of Fuzhou Can Chen et al (FAFU, China)

A study of residential construction density for urban zones in Asia, Africa, and Latin America S.M. Khalabi et al (RUDN University, Russia)

Modern tendencies in the development of integrational industrial architecture in the world S.M. Khalabi et al (RUDN University, Russia)

Architectural – planning value o the sanatorium resort complex in the general plan of the city-resort Sochi A.N. Kalugin et al (RUDN University, Russia)

Architecture in medicine Antonov et al (RUDN University, Russia)

Ecological infrastructure of the city Minasyan et al (RUDN University, Russia)

Social engineering as the basis of urban planning Chagunov et al (Russian State University)

ICE-BREAKING
Galaktika cafe 19.00-22.00

24 MAY

SESSION 2

Green infrastructure and Nature-Based solutions for sustainable cities
Conveners: E. Semutnikova (Department of Natural Resources Management and Environmental Protection, Moscow City Government, Russia)
C. Calfapietra (IBAB CNR, Italy)

Hall A 10.00-11.30

10.00-10.15 The main properties and vertical electrical sounding of alluviated soils of 300th Anniversary Park (Saint Petersburg). E. Abakumov et al (Saint-Petersburg
SSC-2018: Green technologies and infrastructure to enhance urban ecosystem services
Russia Moscow 23-25 May 2018

State University, Russia)

10.15-10.30 Biomass production in the city - vertical green as productive green? T. Nehls et al. (Technical University of Berlin, Germany)

10.30-10.45 Noise reduction properties of green spaces in Saint-Petersburg E. Koptseva and A. Zaytsev (Saint-Petersburg State University, Russia)

10.45-11.00 Impact of factors shaping urban ecosystems on structure and functionality of urban green areas A. Greinert and J. Kostecki (University of Zielona Gora, Poland)

11.00-11.15 Phyto-dehydration: a sustainable approach for the management of polluted ponds P. De Angelis et al (Tuscia University, Italy)

11.15-11.30 Treatment Wetlands for Watershed Restoration Projects in Sao Paulo C. Castaner (University of Sao Paulo, Brazil)

COFFEE-BREAK
ATI RUDN Lobby 11.30-12.00

SESSION 4

Urbanization effect on climate, air and water quality
(PEEX "Pan-Eurasian Experiment" Session)

Conveners: P.I. Konstantinov (LMSU, Russia)
R. Leemans (Wageningen University, Netherlands)

Hall A 12.00-13.30

12.00-12.15 Urbanization effects on water quality in Lake Baikal catchment. S. Chalov (LMSU, Russia)

12.15-12.30 Urban SMEAR “How urban observations increase our understanding on the effect of green infrastructures on cities’ climate?” L. Jarvi (University of Helsinki, Finland)

12.30-12.45 Investigation of urban-induced climate anomalies of Moscow megacity based on the observations and numerical mesoscale modelling M. Varentsov et al (LMSU, Russia)

12.45-13.00 Green infrastructure for improving air quality C. Calfapietra (IBAF CNR)

13.00-13.15 Urban Heat Island Arctic Research Campaign (UHIARC) as a tool for investigation of urban climates in Arctic P. Konstantinov et al (LMSU, Russia)

13.15-13.30 Water reclamation from unconventional sources - Possibilities and challenges for urban ecosystem services F. Rögener (TH Koln)

LUNCH
CITY CAFÉ 13.30-14.30

SESSION 6

Soil pollution and remediation

Conveners: V.I. Vasenev (RUDN University, Russia)
J.L. Morel (Université de Lorraine, France)
T. Nehls (Technical University of Berlin, Germany)
Urban Soil Ecosystem Services: The Good, the Bad, and the Ugly.
R. Pouyat (USDA, USA)

Use of biochar from municipal sewage sludge as soil conditioner for recultivation of urban soils G. Vasilyeva et al (Russian Academy of Sciences, Russia)

Algae and cyanobacteria in soils polluted with heavy metals (Murmansk region, Russia) M. Korneykova & E. Lebedeva (Russian Academy of Sciences, Russia)

Heavy metals’ phytoextraction under ongoing emissions in Subarctic M. Slukovskaya et al. (Russian Academy of Sciences, Russia)

Characterization, Source and Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in Urban Forest Soil of Nanjing, China J. Yang et al (Nanjing Forest University, China)

Mycological assessment of various substrates used to construct urban Technosols F. Khabibullina et al. (RUDN University, Russia)

Workshop 1
Internet of skills and emerging networks in a sustainable city
Hall A 14.30-16.00
Round table 2
Advance technologies for sustainable urban development: from science to practitioners
Conveners:
Conveners: A.V. Smagin (LMSU, Russia)
R. Valentini (Tuscia University, Italy/RUDN University, Russia)
V. Vasenev (RUDN University, Russia)
Hall A 16.00-17.30
COFFEE-BREAK
ATI RUDN Lobby 17.30-18.00

Assessment, modelling and mappings urban ecosystems
Conveners: J. Stoorvogel (Wageningen University, Netherlands)
I. Vasenev (Russian Timiryazev State Agrarian University, Russia)
Hall A 18.00-19.30

Layered soil constructions for sustainable urban and agricultural landscapes (on the example of the Persian Gulf and the Moscow) A. Smagin (LMSU, Russia)

Pedogenic process in engineered soils with implications to design performance M. Williams (University of California, Berkeley, USA)

Land Cover and land use land Change in the New Moscow Region using remote sensing data I. Veretelnikova (RSAU-MTAA/RUDN University,
SSC-2018: Green technologies and infrastructure to enhance urban ecosystem services
Russia Moscow 23-25 May 2018

Russia

18.45-19.00 J.L. Morel (Université de Lorraine, France)
19.00-19.15 J.J. Stoorvogel (Wageningen University, France)
19.15-19.30 Soil-ecological assessment of the M.I. Kalinin Park Ufa City, Russia
A. Suleymanov (Russian Academy of Sciences, Russia)

«Moscow by night» bus tour
Departure from ATI RUDN main entrance at 20.00

25 MAY

KEY NOTE SPEECH
RATTAN LAL
Carbon Management and Sequestration Center, USA
IUSS President
Noble Peace Prize Laureate

Managing Urban Soils for Food and Environment

Hall D 9.30-10.00

SESSION 8
Urban farming: challenges and perspectives
Convener: S. Cui (Institute of Urban Environment, Chinese Academy of Sciences)

Hall D 12.00-13.30
12.00-12.30 Urban food consumption and nutrients flow: Chinese experiences S. Cui (Chinese Academy of Sciences, China)
12.30-12.45 Assessment of NYC Garden Ecosystems with GIS Tools A. Paltseva and Z. Cheng (CUNY, USA)
12.45-13.00 Perspectives and challenges of urban farming in Moscow megapolis V. Vasenev et al (RUDN University)
13.00-13.15 Modeling grasses and cereals biomass on small urban agricultural plots according to high-resolution multispectral survey data Meshalkina et al (RSAU-MTAA, Russia)
13.15-13.30 Growing vegetables and herbs on various substrates in conditions of suspended ridges (phytosthenes). D.D. Gosse (LMSU, Russia)

COFFEE-BREAK
RUDN Canteen 11.30-12.00

SESSION 12
Urban planning for sustainable city development (Jean Monnet Session)
Convener: T.I. Volftrub (President of Russian Association of Landscape Architects)
K. Gould (CUNY, USA)

Hall D 10.00-11.30
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<tr>
<td>16.00-16.15</td>
<td>Strategic master-plan as the base for sustainable city development (on the example of New Moscow) L. Blinov (AI01, Russia)</td>
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<td>16.15-16.30</td>
<td>Social and environmental assessment of green recreational areas in the city of Karaganda, Kazakhstan I. Akylbekova (LMSU, Russia)</td>
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<td>16.30-16.45</td>
<td>Research on the effectiveness of Environmental campaign &quot;Take Action for green urban environment and sustainability&quot; in Vietnam Dao Thi Chung Thuy (RUDN University, Russia)</td>
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<td>16.45-17.00</td>
<td>Formation of Moscow Metro Architecture S. Khalabi et al. (RUDN University, Russia)</td>
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<td>17.00-17.15</td>
<td>The potential of &quot;Smart&quot; development patterns for cities of the Russian Federation I. Ilina (HSE, Russia)</td>
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<td>17.55-17.30</td>
<td>Human capital in the system of the urban territory sustainable development management E. Lazareva et al. (SFU, Russia)</td>
<td>Problems of urban development of the Kamchatka region and the concept of their solution V. Dvoineva (RUDN University, Russia)</td>
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<td>Key indicators of sustainable development of the city of Kazan Yu. A. Nikolaeva and O.A. Maximova (RUDN University, Russia)</td>
<td>K. Gould (CUNY, USA)</td>
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**SESSION 8**

**Urban farming: challenges and perspectives**

Convener: S. Cui (Institute of Urban Environment, Chinese Academy of Sciences)

Hall D 12.00-13.30

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<td>Growing vegetables and herbs on various substrates in conditions of suspended ridges (phytosthenes). D.D. Gosse (LMSU, Russia)</td>
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**LUNCH**

RUDN Canteen 13.30-14.30

**SESSION 10**

**Health risks in urban environment**

Conveners: I. Damulin (Sechenov University, Russia)

Hall D 14.30-16.00

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<tr>
<td>14.30-14.45</td>
<td>The association between internet addiction and mental disorder among international students M. Tribhuvan (RUDN University, Russia)</td>
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<td>14.45-15.00</td>
<td>High-throughput sequencing as a universal method for food and</td>
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environmental safety M.Y. Syromyatnikov and V.N. Popov (VSU, Russia)

15.00-15.15 Urbanization as a pathogenetic factor in neurological diseases I.V. Damulin & A.A. Strutzenko (The 1st MSMU, Russia)

15.15-15.30 Urbanization and ageing of population I. Yashchenko & A. Strucenko (RUDN University)

15.30-15.45 Urbanization as a pathogenetic factor in neurological diseases I.V. Damulin and A. Strucenko (Sechenov University)

15.45-16.00 Urban medium influence upon social behavior stereotype formation A. Konotop (Strategic Missile Troops Military Academy, Russia)

Urbanization and child health E. Egorova (Scientific and Practical Center of Pediatric Psychoneurology, Russia)

Round table 3

Excellences and knowledge gaps in urban sustainability: from science to education

Conveners: E.A. Dovletyarova (RUDN University, Russia)
A. Bier (CUNY, USA)
Hall D 16.00-17.30

CLOSING CEREMONY
Hall D 17.30-18.30

GROUP PHOTO
Hall A 17.00-17.30

Gala-dinner
Galaktika cafe 19.00-22.00
CONTACTS

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