



The 12<sup>th</sup> Triple Helix International Conference 2014

THE TRIPLE HELIX  
AND INNOVATION-BASED ECONOMIC GROWTH:  
NEW FRONTIERS AND SOLUTIONS

Tomsk, 11-13 September 2014

<http://tha2014.org/>

01/09/2014

## CONFERENCE ORGANIZERS



Triple Helix Association (THA)



Tomsk State University of Control Systems and Radioelectronics (TUSUR University)



National Research Tomsk State University, TSU

Association of Russian Entrepreneurial Universities

The Association of Russian Entrepreneurial Universities (AREU)



Global Shapers Community Tomsk Hub (World Economic Forum)

## CONFERENCE PARTNERS



Ministry of Economic Development of the Russian Federation

Ministry of Economic Development of the Russian Federation



МИНКОМСВЯЗЬ  
РОССИИ

Ministry of Communications and Mass Media of the Russian Federation



Administration of Tomsk region



MOSCOW  
INNOVATION  
DEVELOPMENT  
CENTRE

Moscow Innovation Development Centre – the Agency for Economic Development



Skolkovo Institute of Science and Technology (Skoltech)



Russian Venture Company

## Pre - conference day, 10 September 2014

12:00 14:00 16:00	<b>Excursions for participants (duration 45 minutes)</b> <i>According to chosen options in your personal profile area</i>
17.00 - 19.00	<b>Triple Helix Association Executive Committee Meeting</b> <i>Venue: Governor`s Reception House</i>
18.30 - 20.00	<b>The meeting of the Keynote and Invited speakers. Networking.</b> <i>Venue: Governor`s Reception House</i>

## Day 1 - Thursday, 11 September 2014

09:00 - 10:00	<b>Registration. Coffee-welcome</b> <i>Venue: TSU National Scientific Library, Conference Hall (34a Lenin Prospect)</i>
10:00 - 12:55	<b>Plenary session 1: «The Triple Helix and innovation-based economic growth: new frontiers and solutions»</b>

10:00  
-  
10:25

### **Tomsk Region Administration and organizers welcome address**

- **Sergei Zhvachkin**, Governor of Tomsk Region, Russia
- **Richard Burger**, Research & Innovation Counsellor, Head of Science & Technology Section, Delegation of the European Union to the Russian Federation
- **Eduard Galazhinskiy**, Professor, Rector of National Research Tomsk State University, Russia
- **Alexander Uvarov**, Professor, Vice Rector for Innovation and International Affairs, TUSUR University, Chair of the Russian Chapter of the Triple Helix Association, Ambassador of the Association to Russia

*Venue: TSU  
National Scientific  
Library,  
Conference Hall  
(34a Lenin  
Prospect)*

Currently there is a widely spread understanding that an effective joint government-academia-industry cooperation leads to more promising and significant results rather than individual performance of each institutional sphere separately. Therefore, every stakeholder has own expectations from the Triple Helix model implementation. One of the key expectations in the upcoming period is spurring economic growth. The plenary session is dedicated to identifying possibilities of Triple Helix and open innovation concept to enhance cooperation of the Triple Helix actors as well as shaping the context for the discussion of outcomes, i.e. neoliberal paradigm, evolution of social and economic systems supported by efficient institutes, etc. Each context implies its own unique new frontiers and solutions.

### **Co-chairs:**

- **Alexander Uvarov**, Professor, Vice Rector for Innovation and International Affairs, TUSUR University, Chair of the Russian Chapter of the Triple Helix Association, Ambassador of the Association to Russia
- **Henry Etzkowitz**, Professor, President, International Institute of Triple Helix (IITH), President, Triple Helix Association, USA

### **Issues and topics for discussion:**

- Do we see the future economic growth context as the only pathway for the Triple Helix model? Can we talk about other challenging rival patterns and frameworks inducing more

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efficient actions?

- Is it reasonable to expect that the Triple Helix model implementation leads to economic growth initiation in a specific region?
- Can we expect economic growth being generated by open innovation systems based on university-government-industry interaction?
- What are the requirements for implementation of the Triple Helix model to become a real driver for economic growth? Do we know all of them? Are they as transparent and comprehensive as we think they are?

**Keynote speakers:**

- **Solomon Darwin**, Professor, Executive Director of Center for Corporate Innovation, Haas School of Business, UC Berkeley, USA  
«*Open Innovation Leveraging Triple Helix Model*»
- **Henry Etzkowitz**, Professor, President, International Institute of Triple Helix (IITH), President, Triple Helix Association, USA
- **Loet Leydesdorff**, Professor, Amsterdam School of Communication Research (ASCoR), University of Amsterdam, Vice President, Triple Helix Association, the Netherlands

**Speakers:**

- **Richard Burger**, Research & Innovation Counsellor, Head of Science & Technology Section, Delegation of the European Union to the Russian Federation
- **Alain-Marc Rieu**, Professor, Department of philosophy, University of Lyon-Jean Moulin, Senior Research Fellow, Institute of East-Asian Studies, ENS Lyon, France

14:20

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16:00

**WORKSHOP 1. OPEN INNOVATION: TRENDS, AGENDA, IMPACT**

Venue: TUSUR,  
Scientific Council  
Hall (40 Lenin  
Prospect)

Henry Chesbrough's concept of open innovation and his insights into open innovation models have restructured the world of research and development (R&D) shifting it to search and development (S&D). Organizations are rapidly reshaping their innovation processes moving from a «closed» inhouse R&D to an «open model» where ideas flow in and out of organizations to advance the development of new technologies.

Innovation is spreading geographically, engaging a diverse range of stakeholders and extending from technology to service and business model innovation. In other words, innovation is becoming more open, collaborative and creative.

The workshop will be illustrated by case studies on innovative business models.

**Chair: Tatiana Schofield**, The Founder and Managing Director of Synergy lab, UK

**Key workshop questions to be addressed:**

- What effect open innovation has on the development and growth of university, its research, education and translational activities?
- What are the key trends we observe to remain competitive?
- Intellectual Property and Open Innovation: Friends or Foes?
- Innovation in clusters

**Discussants:**

- **Kelvin W. Willoughby**, Professor, Skolkovo Institute of Science and Technology (Skoltech), USA-Russia
- **Wim Heijman**, Professor of Regional Economics, Department of Social Sciences, Wageningen University, the Netherlands
- **Todd Jeffery Lefko**, President, International Business Development Council, USA
- **Ruud Huirne**, Executive Vice President, Food&Agri, Rabobank, the Netherlands

14:20 - 16:00	<b>PARALLEL PAPER PRESENTATION SESSIONS 1-5</b>
14:20 - 16:00	<b>Panel discussion 2: «University economic impact»</b>

Venue: TSU  
National Scientific  
Library,  
Roundtable Hall  
(34a Lenin  
Prospect)

While slowing down, the economic growth rate calls attention of each Triple Helix actor for the constantly enhancing visible contribution in the economic development. The second half of the 20th century witnesses cases of gradual increase in the economic impact of the higher education institutions through the use of various tools – business incubators, science parks, professors of practice, cooperation with industry, development of entrepreneurship among students, etc. This phenomenon is conceptualized as an entrepreneurial university. The beginning of the 21st century implies these practices to be implemented on a regular basis. The panel discussion speakers will present their visions of increasing the university impact in economy and approaches to this impact evaluation.

**Chair: Martha Russell**, Professor, Executive Director, MediaX, Stanford University, USA

**Issues and topics for discussion:**

- Can we consider transformation in an entrepreneurial university as an essential condition to increase the economic impact of the university? Is there any other option?
- Does the increase of the university economic impact suggest a new university role as of a center for entrepreneurial development in the region? If so, how is it possible?
- What kind of relationships between rapid economic growth, education and well-being?
- Can cooperation with industry and science parks increase the economic impact of universities?
- Does evaluation of the university economic impact show university contribution to GDP, job creation, export volume, university-industry cooperation income share?

**Speakers:**

- **Harry Daniels**, Professor, Department of Education, Green Templeton College, Oxford University, UK  
*«Education, well-being and the emergent economies of Brazil, Russia and South Africa»*
- **Jose Estabil**, Director of Entrepreneurship and Innovation, MIT Skolkovo and Portugal programs, MIT, USA
- **Ilia Dubinsky**, Director, Center for Entrepreneurship and Innovation, Skolkovo Institute of Science and Technology (Skoltech), Russia
- **Alexander Uvarov**, Professor, Vice Rector for Innovation and International Affairs, TUSUR University, Chair of the Russian Chapter of the Triple Helix Association, Ambassador of the Association to Russia
- **Eduard Galazhinskiy**, Professor, Rector of National Research Tomsk State University, Russia
- **Floris de Gelder**, Managing Director, Utrecht Science Park, the Netherlands
- **Dan Medovnikov**, Director of the Institute of Innovation Management, National Research University «Higher School of Economics» (HSE); Deputy Editor-in-Chief, Expert magazine, Moscow, Russia

16:15 - 18:15	<b>Panel discussion 1: «University-business collaboration: cooperative education»</b>
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Venue: TSU  
National Scientific  
Library,  
Roundtable Hall  
(34a Lenin  
Prospect)

Traditional university education has not offered much practical experience for students looking for jobs in business and industry. A few universities developed cooperative education programs that extensively integrated work experience with educational programs. Historically this approach has had less prestige. It was focused primarily on educating students to fit the requirements of existing large businesses. As society focuses more and more on innovation and

Prospect)

entrepreneurship, there is a growing need to properly educate young entrepreneurs, both in theory and practice domains.

**Chair: Daniel Satinsky**, Vice President for Business Development, Foresight Science & Technology, President of the Board of U.S. Russia Chamber of Commerce of New England, Inc., USA

**Issues and topics for discussion:**

- What can we learn from the experience of cooperative education programs?
- How are those programs being adapted to new practices in entrepreneurial education?
- Traditional universities are being asked to provide practical training in entrepreneurship, often without having the experiential base or connections to do so. How is the interaction of universities and business/industry adapting to these challenges?
- What role does government play in creating cooperative educational programs?

**Speakers:**

- **Doug Hart**, Professor of Mechanical Engineering, Department of Mechanical Engineering, Massachusetts Institute of Technology (MIT), USA  
*«The good, the bad and the ugly: Industry involvement in experiential education»*
- **Kendrick White**, Vice-Rector for Innovation, Lobachevsky State University of Nizhniy Novgorod, Russia
- **Daniel Satinsky**, Vice President for Business Development, Foresight Science & Technology, President of the Board of U.S. Russia Chamber of Commerce of New England, Inc., USA
- **Alexandra Engovatova**, Faculty Member of the Economics Department of Lomonosov Moscow State University, Russia
- **Paivi Karhunen**, Academy Research Fellow, Aalto University School of Business, Finland
- **Maurizio Sobrero**, Founding Faculty Fellow Entrepreneurship and Innovation, Skolkovo Institute of Science and Technology (Skoltech), Department of Management, University of Bologna, Italy-Russia
- **Mikhail Myagkov**, Professor, Vice-President for Academic Affairs and International Relations, Skolkovo Institute of Science and Technology (Skoltech), Russia
- **Gennady Kobzev**, Head, Division of International cooperation, TUSUR University, Russia

16:15  
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18:15

**WORKSHOP 2. THEORY AND ASSESSMENT OF ENTREPRENEURIAL EDUCATION**

Venue: TUSUR,  
Scientific Council  
Hall (40 Lenin  
Prospect)

This workshop will provide attendees with a basic understanding of the Intention Model (EIM), a leading theory guiding research on entrepreneurship psychology, and a valuable approach to the assessment of entrepreneurship education and training.

The workshop will begin with a presentation of how the EIM mediates the effects of education, skills and experience. Education courses and activities only influence the intention to be an entrepreneur if they first influence both student confidence in their capabilities and the perceived value they expect to receive if they are successful. The absence of any indirect effects means that if a program does not change either student attraction to entrepreneurship and innovation, or student confidence that they can perform the necessary tasks, one will have little or no effect at all on their future behavior.

This understanding allows instructors both to design improved entrepreneurial courses and activities, and to accurately assess whether those educational activities are successful. Time will be spent on the guidelines for writing items that together form a measure of specific forms of self-efficacy, and those attending will then be asked to form groups to work together to write their own items on capabilities of interest to them. Following a work period, participants will present their items for group discussion.

In closing, a short presentation will describe the steps in conducting pre-test/post-test panel studies using self-efficacy, and what are the most commonly used statistical tests to evaluate any change.

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**Workshop Learning Goals:**

- To review the Entrepreneurship Intention Model, its origins, how it is used, and the evidence that narrowly defined self-efficacy predicts future behavior
- To present the use of existing self-efficacy scales for the study of technology-based innovation and entrepreneurship
- To survey the most common statistical tests for determining self-efficacy change
- To conduct group activities, assisting participants to develop their own scales

**Chair: William Lucas**, Research Director, Director of Assessment Gordon Engineering Leadership Program, Massachusetts Institute of Technology (MIT), USA

**Discussants:**

- **Jose Estabil**, Director of Entrepreneurship and Innovation, MIT Skolkovo and Portugal programs, MIT, USA
- **Ilia Dubinsky**, Director, Center for Entrepreneurship and Innovation, Skolkovo Institute of Science and Technology (Skoltech), Russia

19.30 - 21.00	<b>WELCOME DINNER</b>
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## Day 2 - Friday, 12 September 2014

09:30  
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11:20

### Panel discussion 3: «The Triple Helix and rise of new high technology industries»

**Chair:** Dr. **Irina G. Dezhina**, Head of Research Group on Science and Industrial Policy, Skolkovo Institute of Science and Technology (Skoltech), Moscow, Russia

**Keynote speaker:** **Slavo Radosevic**, Professor of Industry and Innovation Studies, Acting Director of School of Slavonic and East European Studies, University College London, UK

#### Speakers:

- **Andrzej H. Jasinski**, Professor, Head of Unit for Innovation and Logistics, School of Management, University of Warsaw, Poland
- **Mikhail Gelfgat**, R&D and Engineering Director, Weatherford, Russia
- **Sergey Galibeev**, Head of the SIBUR Technology Centre, SIBUR, Russia
- **Kelvin W. Willoughby**, Professor, Skolkovo Institute of Science and Technology (Skoltech), USA-Russia  
*«The rise of regional bioscience-technology industries in the United States»*

09:30  
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11:00

### WORKSHOP 6. THING-DRIVEN INNOVATION (IDEAS LAB, CENTER OF ENTREPRENEURSHIP AND INNOVATION, SKOLTECH)

Venue:  
Pushkin's  
Tomsk  
Scientific  
Library,  
Audience 401  
(14 Karl Marx  
Street)

Advent of the Internet of Things (in which the data produced by 'things' will soon outweigh the data produced by humans) is likely to transform many of the established innovation processes. The rapid growth of the number of sensors highlights the speed and magnitude of this upcoming change; growing from 10 million consumer-oriented sensors in 2007 to almost 10 billion sensors in 2013, and is forecasted to surpass 1 trillion sensors within a decade.

In this workshop we present findings of the ThingTank research project that uses a combination of field studies, object instrumentation and artificial intelligence to listen and learn from what 'things' tell about their use, reuse and deviant repurpose, harvesting this data to inspire idea generation, fabrication, rapid prototyping. Much of the rhetoric for investment into Internet of Things platforms is to identify cost saving and process efficiencies (e.g., vehicle manufacturers), to track goods within large networks (e.g., logistics companies), or to monitor the health and safety of systems (e.g., aircraft manufacturers) within a streamlined process of production. But as networked objects become more common, the massive amounts of data that they collect will soon outweigh what we know about these objects – and thus about ourselves. As these databases of objects intermingle with our own data shadows, it won't be long before the objects around us begin to make suggestions about what 'might be' desirable. ThingTank aims to interrogate artifacts' shared use (and abuse) and to elicit new insights outside of a streamlined process of production.

**Chair:** **Neil Rubens**, Adjunct Professor, Skolkovo Institute of Science and Technology (Skoltech); Visiting Scholar, Media X, Stanford University; Assistant Professor, University of Electro-Communications, Tokyo, Japan

#### Key workshop questions to be addressed:

- How might the Internet of Things affect the innovation process?
- Innovation process and the role of people, things, data, sensors, and AI

09:30  
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13:30

### WORKSHOP 7. FUTURE OF ENTREPRENEURIAL UNIVERSITIES: TRIPLE HELIX FORESIGHT

Venue: TSU

The workshop is an interactive session where participants will be able to discuss key trends

National Scientific Library, Roundtable Hall (34a Lenin Prospect)

driving the transformation and the future role of entrepreneurial education, implied by the transformation of its key stakeholders - universities, business and regulators. The session will be conducted as a collective participatory format of Rapid Foresight, a highly successful method of future mapping designed with the focus on education. The session will be useful to practitioners of entrepreneurial and startup education, regulators and advisors concerned with creation of innovative ecosystems, and businesses that can use opportunities created by the transformation of innovative economies.

**Chair: Pavel Luksha**, Professor of Practice, Moscow School of Management SKOLKOVO

09.30  
-  
11.30

## WORKSHOP 8. EXPANDING THE TRIPLE HELIX TO MANAGE THE BALANCE SHEET OF THE EARTH

Venue:  
Pushkin's Tomsk Scientific Library, Audience 401 (14 Karl Marx Street)

### Workshop will be conducted by:

- **Solomon Darwin**, Professor, Executive Director of Center for Corporate Innovation, Haas School of Business, UC Berkeley, USA
- **Tatiana Pospelova**, Postgraduate Student, Lomonosov Moscow State University, Russia

### Workshop structure

- Introduction - What is the Balance Sheet of the Earth? Why is it needed? How it was constructed? - How it works as a tool of Triple Helix?
- Q&A session on the Balance Sheet
- Groups (total of six groups (China, India, Russia, Europe and 2 Multinational))
- Groups work to answer the following questions:
  - Is the balance sheet of the earth simple enough to be understood by an average global citizen? If not, what needs to be improved?
  - Does this tool appeal to people at an individual and collective level to call for action? if not what needs to be improved?
  - How important is Global Consensus feature that is incorporated into the model? will it be effective in the long-run? If not, what needs to be improved?
- International teams/ 5 min presentation

### Groups work to answer the following questions:

- Is the balance sheet of the earth simple enough to be understood by an average global citizen? If not what needs to be improved?
- Does this tool appeal to people at an individual and collective level to call for action? if not what needs to be improved?
- How important is Global Consensus feature that is incorporated into the model? Will it be effective in the long-run? If not what needs to be improved?

11:35  
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13:05

## Panel discussion 4: «Triple Helix and science & education policy»

Venue:  
Pushkin's Tomsk Scientific Library, Event Hall (14 Karl Marx Street)

**Chair: Henry Etzkowitz**, Professor, President, International Institute of Triple Helix (IITH), President, Triple Helix Association, USA

**Keynote speaker:** tbd

### Speakers:

- **Ludmila Ogorodova**, Deputy Minister, Ministry of Education and Science of the Russian Federation, Russia
- **Alexis Michel**, Counsellor for Science and Technology, French Embassy in Russia
- **Sverre Rustad**, Counsellor for Education, Science and Technology, Royal Norwegian Embassy, Moscow
- **Chen Jin**, Professor, Department of Innovation, Entrepreneurship and Strategy, Assistant Dean, School of Economics and Management, Tsinghua University, China

- **Viktor Henner**, Professor, Head of the Centre for Educational and Scientific Exchange Programs, Perm State National Research University, Professor, Louisville University, Russia-USA

<b>10:00</b> - <b>11:30</b>	<b>MEETING OF TASK FORCE «DEVELOPMENT OF INNOVATION ECOSYSTEMS AND ADVANCED TECHNOLOGIES» WITHIN THE GLOBAL COMPETITIVENESS OF LEADING RUSSIAN UNIVERSITIES PROGRAM</b>
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**Organized by** Ministry of Education and Science of the Russian Federation, RVC

**Issues and topics for discussion:**

- Transfer technology practice
- Development of technological forecast in universities
- Development of universities' innovation ecosystem

<b>11:35</b> - <b>13:05</b>	<b>WORKSHOP 9. CREATING VALUE FOR LOCAL, GLOBAL AND SECTOR IMPACT: ANALYZING AND LEVERAGING THE POWER OF RELATIONSHIP NETWORKS</b>
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Relationships are resources for co-creating value in innovation ecosystems. Networks of entrepreneurs, executives, and investors complement the networks of innovators and orchestrators in accelerating the launch of new initiatives, the growth of new companies, and their assimilation into regional and global economies. Talent, information and financial resources flow through these networked relationships. This workshop provides a conceptual foundation of relationship networks and innovation ecosystems, through which Finland is described at three levels of the innovation ecosystem: established enterprises, growth companies, and startups. This scene is continuously evolving, as relationships between individuals and organizations change. Participants will experience hands-on interaction with visual network tools to explore the relationship infrastructures of new and emerging companies and their relational capital. Participants will have the opportunity to discuss best practice growth strategies and identify business models and relationship patterns for network development.

**Chair: Martha Russell**, Professor, Executive Director, MediaX, Stanford University, USA

**Key workshop questions to be addressed:**

- Who are the new companies entering the Finnish economy?
- How are their ecosystem relationships (knowledge, people and financial flows) changing the business?
- Where are the new companies and their entrepreneurs coming from? From which countries? Which sectors? Which universities?
- What is the role of government innovation programs in accelerating growth?
- Where are the new companies getting financial resources to develop and grow?

**Discussants:**

- **Neil Rubens**, Adjunct Professor, Skolkovo Institute of Science and Technology (Skoltech), Visiting Scholar, Media X, Stanford University, Assistant Professor, University of Electro-Communications, Tokyo, Japan
- **Jukka Huhtamäki**, Researcher and Instructor, Intelligent Information Systems Laboratory (IISLab), Tampere University of Technology, Finland

<b>11:35</b> - <b>13:05</b>	<b>PARALLEL PAPER PRESENTATION SESSIONS 6-10</b>
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<b>14:30</b> - <b>16:30</b>	<b>Plenary session 2: «The Triple Helix and the new role of government»</b>
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Venue:  
Tomsk Region  
Administration,  
Conference  
Hall (6 Lenin  
Square)

**Chair: Henry Etzkowitz**, Professor, President, International Institute of Triple Helix (IITH),  
President, Triple Helix Association, USA

**Issues and topics for discussion:**

- What should be the policy in the field of science, technology and innovation in the face of slowing economic growth?

**Keynote speaker: Wolfgang Drechsler**, Professor, Chair of Governance and Vice Dean for International Relations, Faculty of Social Sciences, Tallinn University of Technology, Estonia

**Speakers:**

- **Richard Burger**, Research & Innovation Counsellor, Head - Science & Technology Section, Delegation of the European Union to the Russian Federation
- **Jean-Michel Berlemont**, Deputy Mayor for Regional, European, and International Cooperation, Nancy, France
- **Augusto Raupp**, Assistant Secretary of State for Science and Technology, Government of Rio de Janeiro State, Brazil
- **Oksana Kozlovskaya**, Chairperson, The Legislative Duma of The Tomsk Region, Russia
- **Andrey Antonov**, Deputy Governor of Tomsk region for economy, Russia

16:50

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18:30

THREE PARALLEL WORKSHOPS

16:50

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18:30

WORKSHOP 3. THE INVOLVEMENT OF UNIVERSITIES INTO SOCIAL ENTREPRENEURSHIP

Venue: TUSUR,  
Scientific Council  
Hall (40 Lenin  
Prospect)

The social entrepreneurship becomes a growing trend in the world. The number of social entrepreneurs increases rapidly. The leading universities do not stand aside and launch programs both for research and support of the social entrepreneurship and the social entrepreneurs. The Russian universities joint this trend as well – SPSU and MSU launched special educational programs for social entrepreneurs, HSE initiated special Center for social entrepreneurship and social innovations, ITMO implements actively the social entrepreneurship as a tool for cooperation with the authorities and the business representatives of the city.

**Chair: Sergey Golubev**, consultant on the development of social entrepreneurship and social innovation, Russian Presidential Academy of National Economy and Public Administration, Russia

**Key workshop questions to be addressed:**

- Why universities dealing with the issue of social entrepreneurship?
- How can social entrepreneurship allow the university to establish relationships with the local community, stakeholders and the state?
- What are the mechanisms used by the universities for the development of social entrepreneurship? What hinders and what helps universities in this?
- Why external stakeholders may be interested in the universities as sites of social entrepreneurship?

**Discussants:**

- **Duncan Levinsohn**, Director of Studies, Jönköping International Business School, Jönköping University, Sverige, Sweden
- **William Lucas**, Research Director, MIT Engineering Leadership program, USA
- **Floris de Gelder**, Managing Director, Utrecht Science Park, the Netherlands
- **Kanan Dhru**, Founder and Managing Director, Research Foundation for Governance in India, Ahmedabad, India
- **Filipp Kazin**, head of Department for project management development, ITMO National Research University (ITMO University), Saint Petersburg, Russia

- **Sergey Golubev**, consultant on the development of social entrepreneurship and social innovation, Russian Presidential Academy of National Economy and Public Administration, Russia
- **Tatiana Koval**, Executive Director of the Committee on the social responsibility of business, philanthropy and charity, Russian non-governmental organization «Business Russia», Russia

16:50  
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18:30

#### WORKSHOP 4. BIOMEDICAL INNOVATIONS MANAGEMENT: RUSSIAN AND WORLD CASES

*Venue: TSU  
National Scientific  
Library,  
Conference Hall  
(34a Lenin  
Prospect)*

BioMedical innovations management is becoming a challenge for each country. It is connected to complications, safeties and risks followed up them. How different actors of Triple Helix relations understand these concepts? What differences are between countries and between actors? The role of biomedical innovations management in addressing social problems in Russia and the world will be discussed during the workshop. The representatives of the different fields and sectors will come together: medical practitioners and scientists, members of state organizations and high-tech companies, staff members of non-commercial organizations working in biomedicine, including foreign ones, as well as sociologists and anthropologists. Such inclusive approach is important for analyzing the innovations in biomedicine and for understanding of the processes, difficulties and risks in this field.

**Chair:** tbd

#### Key workshop questions to be addressed:

- Role of biomedical innovations in addressing social problems in Russia and the world
- Models of governance by biomedical innovations in the different regions
- Relations between international standards and development of biomedical innovations in different countries
- Issues of import and export of medical devices and pharmaceuticals

#### Discussants:

- **Marcos Pinotti**, President, Latin-American Society for Biomaterials, Artificial Tissues and Organs, Advisor for the Brazilian President Office, Professor, Federal University of Minas Gerais, Co-founder of International Workshop «Innovations and Clusters», Brazil
- **Ruud Huirne**, Executive Vice president, Food&Agri, Rabobank, the Netherlands
- **Natasha Valeeva**, Scientific Researcher, LEI Wageningen UR, the Netherlands

16:50  
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18:30

#### WORKSHOP 5. GRASSROOTS INNOVATION: PROSPECTS FOR THE TRIPLE HELIX MODEL

*Venue: TSU  
National Scientific  
Library,  
Roundtable Hall  
(34a Lenin  
Prospect)*

The study of innovation systems within the concept of the Triple Helix Model (THM) has taken place mainly in the framework of formal institutions and organizations. Since the early 2000s, there has been growing interest and research on the feasibility and applicability of THM in Developing Countries (DCs). Key discussion points range from the challenges of building synergy between the major National System of Innovation (NSI) actors, i.e. university, business and government, to the prospects of THM in DCs in promoting innovation, sustainable development, science, technology and innovation (STI) policies and public policymaking.

However, there still exists a substantial gap in these studies, attention to which can significantly enhance the THM. We know that a considerable part of developing countries' economies is informal and operates within the unorganized sector. This would make no difference for the THM if these two facts did not exist: the presence of innovative activity outside the organized sector and the integration of this innovative activity in the formal system of the country, as in the case of India.

Innovative activity outside the formal sector, referred to grassroots innovation (GRI) in most of the scientific literature, inevitably leads to changes in the role and functions of the main actors of any NSI network. With no universally accepted definition of GRI in STI literature yet, the introduction of

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the workshop will include short explanation of GRI by posing questions such as: Is GRI a phenomenon? What are its specific features and drivers? How is GRI being framed and conceptualized?

**Chair: Elena Litsareva**, Professor, Department of International Politics, National Research Tomsk State University, Russia

**Key workshop questions to be addressed:**

Drawing from examples of countries such as India, Nigeria and Russia (as representatives of three major regions - Asia, Africa, and Europe), the workshop will address the following topics:

- GRI as a new actor of innovation activity within the NSI network. Case studies from India, Nigeria and Russia
- GRI and NSI nexus: the role of universities, business and government (THM)
- GRI in the context of DCs. Why it is important to consider it within the THM?

**Discussants:**

- **Chux Daniels**, Researcher and Lecturer, Science & Technology Policy Research Unit, School of Business, Management and Economics, University of Sussex, UK
- **Olga Ustyuzhantseva**, Research Fellow, Center of Oriental Studies, National Research Tomsk State University, Russia

<b>16:50</b> - <b>18:30</b>	<b>PARALLEL PAPER PRESENTATION SESSIONS 11-14</b>
<b>19.00</b> - <b>21.00</b>	<b>GALA DINNER</b>

## Day 3 - Saturday, 13 September 2014

10:00  
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11:30

**Panel discussion 6: «Role of innovation theory in spurring innovation-based economic growth: better understanding - better life?»**

**Chair:** tbd

**Speakers:**

- **Anttiheiki Helenius**, Founder and CEO, Dr. Helenius Consulting, Finland
- **Henry Etzkowitz**, Professor, President, International Institute of Triple Helix (IITH), President, Triple Helix Association, USA
- **Wolfgang Drechsler**, Professor, Chair of Governance and Vice Dean for International Relations, Faculty of Social Sciences, Tallinn University of Technology, Estonia
- **Martha Russell**, Professor, Executive Director, MediaX, Stanford University, USA

11:45  
-  
13.00

**WORKSHOP 10. THE CHALLENGES FOR UNIVERSITY-INDUSTRY PARTNERSHIPS**

In the world of globalising spheres, local actors face an increasing challenge of marginalisation. Entrepreneurial Universities extend their sphere of influence globally, reaching out for the international market and in pursuit of global strategies. Firms on the other hand, that are facing global competition attempt to increase competitiveness through localised interactions, networking, collaboration, containing knowledge spillovers and capturing synergies from clustering and co-location strategies. Are the spheres of Industry and University in the Triple Helix innovation model bound to disengage from their fragile cooperation practices for knowledge transfer?

**Key workshop questions to be addressed:**

- Reviewing the past and the current models for University-Industry interactions and partnerships
- Outlining the current role of universities in successful, emerging or declining industry clusters and regions
- Reviewing the micro, meso, macro level of interactions and partnerships between researchers and marketers
- Reflecting on the impact of competitive forces in the university domain and the increasing collaboration in the new knowledge based collaborative global economy
- Assessing the need for and the emergence of knowledge brokers and their intermediation practices
- Evaluating the barriers for deepening University – Industry partnerships and new emerging trends
- Examples of transformations from academic research to value-added market products and services and the contributions from University and Industry
- Intermediation by knowledge brokers and the challenges to confidentiality for the third parties

**Chair:** Dr. **Emanuela Todeva**, Senior Lecturer in Strategy and International Business, University of Surrey, Elected Member of the TH Executive Committee and Chair Organizational Research Committee, UK

**Speakers:**

- Dr. **Norbert Gruenwald**, Director Robert-Schmidt-Institute, Hochschule Wismar, University of Applied Sciences Technology, Business and Design, Germany  
*«Models at our university for University-Industry interactions and partnerships»*
- **Martha Russell**, Professor, Executive Director, MediaX, Stanford University, USA  
*«How I almost lost my job»*
- **Solomon Darwin**, Professor, Executive Director of Center for Corporate Innovation, Haas School of Business, University of California, Berkeley, USA

10:00  
-  
11:30

**WORKSHOP 11. GOVERNMENT AS A PARTNER FOR INNOVATIVE DEVELOPMENT AND CLUSTER SUSTAINABILITY**

New approaches to global competitiveness require change of roles and scenarios for all the actors. There are cases in the World when government at different levels - municipal, regional, national - changed its mode of behavior, made it consistent.

**Chair: Evgeniya Shamis**, CEO, Sherpa S Pro, Co-founder of International Workshop «Innovations and Clusters» (Brazil), Russia

**Key workshop questions to be addressed:**

- What does it mean for government? How to be think, speak, act, be a partner?
- How to change behavior and the system, which is integrated into practices, documents, everyday actions?

**Discussants:**

- **Yossi Offer**, Cofounder, InterLoc Development Ltd, Israel  
*«What may happen when the government is well performing? The development of a relatively remote cyber cluster in Israel's desert capital city»*
- **Marcos Pinotti**, President, Latin-American Society for Biomaterials, Artificial Tissues and Organs, Advisor for the Brazilian President Office, Professor, Federal University of Minas Gerais, Co-founder of International Workshop «Innovations and Clusters», Brazil
- **Pär Larshans**, Chief Sustainability Officer, Max Hamburger Restaurants, Sweden
- **Alexey Gusev**, Monitoring Service Chief Innovation Infrastructure, RVC, Russia

11:45  
-  
12:50

**MEETING OF TASK FORCE «DEVELOPMENT OF INNOVATION ECOSYSTEMS AND ADVANCED TECHNOLOGIES» WITHIN THE GLOBAL COMPETITIVENESS OF LEADING RUSSIAN UNIVERSITIES PROGRAM**

**Chair: Evgeny Kuznetsov**, Deputy CEO - Director of RVC's Project Office, RVC, Russia

**Issues and topics for discussion:**

- Transfer technology practice
- Development of technological forecast in universities
- Development of universities' innovation ecosystem

**Speakers:**

- **Evgeny Kuznetsov**, Deputy CEO - Director of RVC's Project Office, RVC, Russia
- **Igor Rozhdestvensky**, Director, Business Incubator, Ingria Technology Park, Managing partner, Xmas Ventures, Senior staff, Department for Commercialization of Innovations and Technology Transfer, Saint Petersburg State University, Russia
- **Alexander Uvarov**, Professor, Vice Rector for Innovation and International Affairs, TUSUR University, Chair of the Russian Chapter of the Triple Helix Association, Ambassador of the Association to Russia
- **Evgeniya Shamis**, CEO, Sherpa S Pro, Co-founder of International Workshop «Innovations and Clusters» (Brazil), Russia
- **Sergey Kortov**, Vice Rector for Innovations, Ural Federal University, Russia
- **Sergei Baydali**, Deputy Vice-rector for Research and Innovation, National Research Tomsk Polytechnic University, Russia
- **Nina Yanykina**, Head of Innovation Department, ITMO University, Saint Petersburg, Russia

11:45  
-  
12:50

**PARALLEL PAPER PRESENTATION SESSION 15**

<b>15:45</b> - <b>17:15</b>	<b>Panel discussion 7: «City innovation policy and Innovation district»</b>
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**Chair: Daniel Satinsky**, Vice President for Business Development, Foresight Science & Technology, President of the Board of U.S. Russia Chamber of Commerce of New England, Inc., USA

**Issues and topics for discussion:**

- Why are cities developing innovation districts - specific drivers and expected outcomes?
- City innovation districts development: world cases
- How do innovation districts differ from science and technology parks, incubators, and tax free zones?
- What are the relative roles of government, universities and business in creation and operation of innovation districts?
- How can cities support a decent spread of the benefits of innovation between various groups and stakeholders?

**Keynote speaker: Josep Pique**, CEO of Office of Economic Growth Barcelona City Council, President of European Division International Association of Science Parks and Areas of Innovation (IASP), Spain

*«City Innovation Policy and Innovation Districts: The Case of 22@Barcelona»*

**Speakers:**

- **Igor R. Agamirzian**, CEO of RVC, Russia
- **Kyle Polk**, Economic consultant for Detroit Future City (DFC) project, a mayoral initiated and philanthropically funded economic growth strategy, Detroit, USA
- **Ekaterina Bulycheva**, Deputy CEO and Head of Infrastructure and Development Strategy Department, Moscow Innovation Development Centre, Russia
- **Yossi Offer**, Cofounder, InterLoc Development Ltd, Israel

<b>17:15</b> - <b>18:00</b>	<b>Closing plenary session. Presentation of the next XIII Triple Helix Conference</b>
<b>19:00</b> - <b>21:00</b>	<b>CLOSING DINNER</b>

## PARALLEL PAPER PRESENTATION SESSIONS 1-15

- PS1 - TRIPLE HELIX MODEL IN DEVELOPING COUNTRIES: CATCHING UP OR UNIQUE WAY?
- PS2 - UNIVERSITY RESEARCH: EVALUATION, FUNDING, COLLABORATION AND COMMERCIALIZATION
- PS3 - DEVELOPING AN INFRASTRUCTURE FOR NEW LINKS BETWEEN ACADEMIA AND INDUSTRY
- PS4 - THE ROLE OF INNOVATION THEORY IN SPURRING INNOVATION-BASED ECONOMIC GROWTH: BETTER UNDERSTANDING - BETTER LIFE?
- PS5 - ACADEMIC INVENTORS, S&T UNIVERSITY INDICATORS AND SPIN-OFFS
  
- PS6 - DEVELOPMENT OF IT-INDUSTRY
- PS7 - THE MODELS OF ENTREPRENEURIAL UNIVERSITIES
- PS8 - TRIPLE HELIX MODEL IN DEVELOPING COUNTRIES: CATCHING UP OR UNIQUE WAY?
- PS9 - ENTREPRENEURSHIP AS THE KEY ELEMENT OF INNOVATION-BASED ECONOMIC GROWTH
- PS10 - TECHNOLOGY TRANSFER
  
- PS11 - DEVELOPING AN INFRASTRUCTURE FOR NEW LINKS BETWEEN ACADEMIA AND INDUSTRY
- PS12 - INNOVATION IN INDUSTRY AND R&D-ACTIVE FIRMS
- PS13 - EDUCATIONAL ENVIRONMENT AND DISTANCE LEARNING
- PS14 - DIMENSIONS OF STUDYING AND BUILDING INNOVATION CLUSTERS: EUROPEAN LESSONS
  
- PS15 - TRIPLE HELIX AND CLUSTER POLICY: BUILDING INNOVATION CLUSTERS

## POSTER PRESENTATION (10)