



CENTRAL ASIA  
**NOBEL  
FEST**



**Central Asia Nobel Fest *Live***

**1-4 October 2020**

[nobel-fest.inpolicy.net](http://nobel-fest.inpolicy.net)

**“INFINITE SCIENCE:  
WHERE THE WORLD IS HEADING?”**

**October 1 - Thursday**

**Time (GMT +6)**

14:30 – 15:00

Opening ceremony of the Inaugural Central Asia Nobel Fest

15:00 – 15:50

**MOVING TOWARDS INCLUSIVE EDUCATION**

**Track: The  
future of  
human  
capital**

Debates with Nobel Prize winners on importance of inclusive education and strategies that increase the access to knowledge.

Speakers:

**Tawakkol Karman**, Leader of the “Women Journalists Without Chains”, Nobel Peace Prize winner, 2011 (**confirmed**)

**Kailash Satyarthi**, Founder of the organization Bachpan Bachao Andolan, Nobel Peace Prize winner, 2014

15:50 – 16:10

Conversation with Nobel Peace Prize winner and advocate for universal right to education, Mr. **Kailash Satyarthi** on the “LESSON FOR HUMANITY: CAN WE STAY HUMAN?”

16:10 – 17:00

**BLUE OCEANS IN THE POST-PANDEMIC WORLD: WHICH INDUSTRIES WILL PROSPER?**

Discussion on how and where to explore opportunities in the post-pandemic world

Speakers:

**Andrei Movchan**, nonresident scholar in the Economic Policy Program at the Carnegie Moscow Center (TBC)

**Ramil Mukhoryapov**, Co-founder and CEO Choco Family Holding (TBC)

**Renée Mauborgne**, Distinguished Fellow and a professor of strategy at INSEAD

17:00 – 17:20	<p><b>Quiz tournament</b></p> <p>Online quiz tournament among teams from various universities on popular science topics</p>
<p>17:20 – 18:10</p> <p><b>Track:</b> Inclusive economy and sustainability</p>	<p><b>THE END OF OIL ERA: HOW TO ACHIEVE SUSTAINABLE FUTURE?</b></p> <p>Debates with Nobel Prize winners on approaches to sustainable future and strategies to limit the excessive economic reliance on natural resources</p> <p>Speakers:  <b>Rae Kwon Chung</b>, Nobel Peace Prize winner, 2007 (<b>confirmed</b>)  <b>Mahmoud Mohieldin</b>, World Bank Group Senior Vice President for the 2030 Development Agenda, United Nations Relations, and Partnerships (TBC)  <b>Hans Timmer</b>, World Bank's Chief Economist for South Asia (TBC)</p>
18:10 – 18:25	<p><b>We Inspire</b></p> <p>Inspiring speeches from Nobel Prize winners and distinguished scientists on personal development, motivation, inclusive development and social responsibility</p>
<p>18:25 – 19:15</p> <p><b>Track:</b> Inclusive economy and sustainability</p>	<p><b>INPOLICY TALKS: THE REVERSAL OF GLOBALIZATION AND ITS IMPLICATIONS TO THE ECONOMY, POLITICS AND SOCIETY?</b></p> <p>Debates with eminent experts on the effect of de-globalization and its implications to global politics, economics, trade, global cooperation and society.</p> <p>Speakers:  <b>Johannes Linn</b>, Former Vice President of the World Bank for Europe and Central Asia (<b>confirmed</b>)  <b>Sergei Guriev</b>, Professor of economics, Sciences Po, Former Chief Economist, EBRD (<b>confirmed</b>)</p>
<p>19:15 – 19:50</p> <p><b>Track:</b> Technologies changing the world</p>	<p><b>HOW ROBOTICS IS CHANGING HEALTHCARE SYSTEM?</b></p> <p>Debates with Nobel Prize winners on the how development of technologies is changing the world of medicine and recent achievements in this field</p> <p>Speakers:  <b>Kevin Warwick</b>, Prominent cybernetician, Emeritus Professor at Coventry and Reading Universities (<b>confirmed</b>)  Other speakers (TBC)</p>

19:50 – 20:00	Opening of the Plenary Discussion
20:00 – 21:00	Plenary: <b>THE FUTURE WE CREATE: WHERE ARE WE HEADING?</b>  Nobel Prize winners share their perspective on the future of humanity  <b>Speakers:</b> <b>Tawakkol Karman</b> , Leader of the “Women Journalists Without Chains”, Nobel Peace Prize winner, 2011 <b>(confirmed)</b> Other speakers (TBC)
21:00 – 21:10	<b><i>Closing Day One</i></b>  Concluding remarks on the discussed topics and issues

## October 2 - Friday

Time (GMT +6)

15:00 – 15:15	<b><i>Opening of the Day Two</i></b>  Quick review of the upcoming sessions and activities of the day
15:15 – 16:15	<b>CROWDFUNDING INNOVATIVE PROJECTS</b>  Workshop on how to attract funding to your research and projects
16:15 – 16:25	Participants share their opinions on Central Asia Nobel Fest
16:25 – 17:10	<b>Exclusive:</b> Conversation with Nobel Peace Prize winner, pro-democratic activist and Yemeni “Iron Women”, Mrs. <b>Tawakkol Karman</b> and women’s rights activists from Central Asia and Caucasus on the “WOMEN’S VOICES IN PEACEFUL MOVEMENTS”
17:15 – 17:50	<b>HOW TECHNOLOGICAL REVOLUTION TRANSFORM ECONOMIC GROWTH AND CAN IT REDUCE INEQUALITY?</b>  Debates with Nobel Prize winners and distinguished experts on how technological advancements can be used to fight economic inequality  <b>Speakers:</b> <b>Xavier Sala i Martin</b> , Professor of Economics at Columbia University and the man behind the Global Competitiveness Index (TBC) <b>Shahid Yusuf</b> , Chief Economist of The Growth Dialogue, George Washington University School of Business (TBC) <b>Alfred Watkins</b> , Chairman of the Global Solutions Summit, Senior Advisor

### Track:

Inclusive economy and sustainability

	to the Global Technology Deployment Initiative (TBC)
17:50 – 18:40	<p><b>MEDICINE OF THE FUTURE: HOW TO TACKLE DISEASES AND LIVE LONGER?</b></p> <p>Debates with Nobel Prize winners and distinguished scientists on the emerging diseases and how medicine will help humans to live longer in future.</p> <p>Speakers:  <b>Richard Roberts</b>, Chief Scientific Officer at New England BioLabs, Nobel Prize winner in Physiology or Medicine, 1993 <b>(confirmed)</b>  <b>Napoleone Ferrara</b>, Professor of Pathology at University of California San Diego, winner of the Breakthrough Prize in Life Sciences, 2013 (TBC)  <b>Richard Lifton</b>, President of the Rockefeller University, winner of the Breakthrough Prize in Life Sciences, 2014 (TBC)  <b>Ronald Evans</b>, Professor and Director of the Gene Expression Laboratory at Howard Hughes Medical Institute, winner of the Albert Lasker Award for Basic Medical Research, 2004 (TBC)  <b>Stephen Elledge</b>, Professor of Genetics and of Medicine at Harvard Medical School, winner of the Albert Lasker Award for Basic Medical Research, 2015 (TBC)  <b>Charles Rice</b>, Head of the Laboratory for Virology and Infectious Disease at Rockefeller University, recipient of the Lasker-DeBaakey Clinical Medical Research Award, 2016 (TBC)  <b>Douglas Lowy</b>, Chief of Laboratory of Cellular Oncology at National Cancer Institute, recipient of the Lasker-DeBaakey Clinical Medical Research Award, 2017 (TBC)</p>
18:40 – 18:50	<p><b><i>Virtual Tour</i></b></p> <p>Virtual tours around the most known museums and planetariums of the world</p>
18:50 – 19:25	<p><b>HOW PANDEMIC ACCELERATES DIGITAL TRANSFORMATION AND ITS IMPLICATIONS FOR THE LABOR MARKET?</b></p> <p>Debates with Nobel Prize winners on transformations in the labor market brought by industry 4.0. and the examples from recent shutdowns due to the pandemic</p> <p>Speakers:  <b>Xavier Sala i Martin</b>, Professor of Economics at Columbia University and the man behind the Global Competitiveness Index (TBC)  <b>Herman Gref</b>, CEO and Chairman of the Executive Board of Sberbank, Former Minister of Economic Development and Trade of the Russian Federation (2000 - 2007) (TBC)  <b>Sir Christopher Pissarides</b>, Professor of Economics at London School of Economics, winner of the Nobel Prize in Economic Sciences, 2010 (TBC)</p>
17:50 – 18:40	<p><b>Track:</b> New frontiers of science and medicine</p>
18:50 – 19:25	<p><b>Track:</b> The future of human capital</p>



19:25 – 19:45	<p><b>Exclusive</b> interview with prominent cybernetician, also known as “Captain Cyborg”, <b>Dr. Kevin Warwick</b> on “WHAT IS NEXT ON THE HUMAN AND MACHINE SYMBIOSES?”</p>
19:45 – 20:35	<p><b>STEPPING INTO THE UNKNOWN: DEMYSTIFYING THE UNIVERSE</b></p> <p>Debates with Nobel Prize winners and distinguished scientists on the recent studies and discoveries in cosmology</p> <p>Speakers:  <b>David Gross</b>, Chancellor’s Chair Professor of Theoretical Physics at the University of California, Santa Barbara, winner of the Nobel Prize in Physics, 2004 (<b>confirmed</b>)  <b>Juan Maldacena</b>, Professor at the Institute for Advanced Study, winner of the Breakthrough Prize in Fundamental Physics, 2012 (<b>confirmed</b>)  <b>Charles Bennett</b>, Gilman Scholar at Johns Hopkins University, winner of the Breakthrough Prize in Fundamental Physics, 2018 (TBC)  <b>Saul Perlmutter</b>, Professor of Physics at University of California, winner of the Breakthrough Prize in Fundamental Physics, 2015 (TBC)  <b>Suzuki Yoichiro</b>, Director of the Institute for Cosmic Ray Research at University of Tokyo, winner of the Breakthrough Prize in Fundamental Physics, 2016 (TBC)</p>
20:35 – 21:25	<p><b>HOW ARTIFICIAL INTELLIGENCE TRANSFORMS THE WORLD?</b></p> <p>Debates with Nobel Prize winners on the recent developments in AI and their integration in daily human life</p> <p>Speakers:  <b>Kevin Warwick</b>, Prominent cybernetician, Emeritus Professor at Coventry and Reading Universities (<b>confirmed</b>)  <b>Silvio Micali</b>, Professor of computer at MIT, recipient of the Turing Award, 2012 (<b>confirmed</b>)  <b>Adi Shamir</b>, Professor of Applied mathematics and computer science at Weizmann Institute, recipient of the Turing Award, 2002 (TBC)  <b>Leslie Valiant</b>, Professor of Computer Science and Applied Mathematics at Harvard University, recipient of the Turing Award, 2002 (TBC)</p>
21:25 – 21:30	<p><b>Closing Day Two</b></p> <p>Concluding remarks on the discussed topics and issues</p>

October 3 - Saturday

Time (GMT +6)

15:00 – 15:15	<p><b><i>Opening of the Day Three</i></b></p> <p>Quick review of the upcoming sessions and activities of the day</p>
<p>15:15 – 15:55</p> <p><b>Track:</b> The future of human capital</p>	<p><b>HOW TO IMPROVE HUMAN CAPITAL IN CENTRAL ASIA AND CAUCASUS?</b></p> <p>Debates with Nobel Prize winners and prominent experts on strategies of effective development of human capital that contributes to the economic growth in Central Asia and Caucasus</p> <p><b>Chair: Sayasat Nurbek</b>, CEO BTS Education, Project Lead “Atlas of New Professions in Kazakhstan” (TBC)</p> <p>Speakers:  <b>Georgi Kvirikashvili</b>, Former Prime Minister of Georgia (2015-2018) (TBC)  <b>Shigeo Katsu</b>, President of the Nazarbayev University (TBC)</p>
15:55 – 16:15	<p><b><i>Presentation of invention and projects</i></b></p> <p>Presentation of inventions from Central Asia and Caucasus</p>
16:15 – 17:15	<p><b>HOW TO ATTRACT FUNDING FOR SCIENTIFIC STARTUPS?</b></p> <p>Workshop on how to attract funding to your research and projects</p>
17:15 – 17:35	<p><b><i>Quiz tournament</i></b></p> <p>Online quiz tournament among teams from various universities on popular science topics</p>
<p>17:35 – 18:15</p> <p><b>Track:</b> New frontiers of science and medicine</p>	<p><b>STEPS TOWARDS LIFE: CHEMISTRY!</b></p> <p>Lecture from Nobel Laureate in Chemistry, Dr. Jean-Marie Lehn <b>(confirmed)</b></p>
<p>18:15 – 19:00</p> <p><b>Track:</b> New frontiers of science and medicine</p>	<p><b>PHYSICS OF THE XXI CENTURY</b></p> <p>Debates with Nobel Prize winners and distinguished scientists on latest research and achievements in the field of theoretical physics and their implications for human life</p> <p>Speakers:  <b>Edward Witten</b>, Professor at the Institute for Advanced Study, winner of the Breakthrough Prize in Fundamental Physics, 2012 (TBC)  <b>Alexander Polyakov</b>, Professor of Physics at Princeton University, winner</p>

	<p>of the Breakthrough Prize in Fundamental Physics, 2013 (TBC)  <b>Suzuki Yoichiro</b>, Director of the Institute for Cosmic Ray Research at University of Tokyo, winner of the Breakthrough Prize in Fundamental Physics, 2016 (TBC)  <b>Eugene Mele</b>, Professor of Physics at University of Pennsylvania, winner of the Breakthrough Prize in Fundamental Physics, 2019 (TBC)</p>
19:00 – 19:10	<p>Conversation with Nobel Prize winners and eminent scientists on the topic "WORLD AND SCIENCE IN THE NEXT DECADE: CHALLENGES AND BREAKTHROUGHS"</p>
19:10 – 20:00	<p><b>THE UNIVERSE INSIDE OUR CELLS: WHAT BREAKTHROUGHS AWAIT US?</b></p> <p>Debates with Nobel Prize winners and distinguished scientists on biological mechanisms and neurophysiological processes</p> <p>Speakers:  <b>Don Cleveland</b>, Department Chair at University of California, winner of the Breakthrough Prize in Life Sciences, 2018 (<b>confirmed</b>)  <b>Michael Sheetz</b>, Director of Mechanomedicine Program at University of Texas Medical Branch, winner of the Albert Lasker Award for Basic Medical Research, 2012 (<b>confirmed</b>)  <b>Richard Roberts</b>, Chief Scientific Officer at New England BioLabs, Nobel Prize winner in Physiology or Medicine, 1993 (<b>confirmed</b>)</p>
20:00 – 20:50	<p><b>ROOTED IN GENES: WHAT CAN WE LEARN FROM OUR DNA?</b></p> <p>Debates with Nobel Prize winners and distinguished scientists on latest research and achievements in genetics and their implication for human life</p> <p><b>Sir Alec Jeffreys</b>, Professor of Genetics at University of Leicester, winner of the Albert Lasker Award for Basic Medical Research, 2005 (TBC)  <b>Victor Ambros</b>, Professor of Natural Sciences at the University of Massachusetts Medical School, winner of the Breakthrough Prize in Life Sciences, 2015 (TBC)  <b>Gary Ruvkun</b>, Professor of Genetics at Harvard Medical School, winner of the Breakthrough Prize in Life Sciences, 2015 (TBC)  <b>Ron Vale</b>, Professor of Cellular Molecular Pharmacology at University of California, San Francisco, winner of the Albert Lasker Award for Basic Medical Research, 2012 (TBC)  <b>Mary-Claire King</b>, Professor of Genome Sciences and of Medicine at University of Washington, winner of the Albert Lasker Award for Basic Medical Research, 2014 (TBC)  <b>David Allis</b>, Tri-institutional Professor at Rockefeller University, winner of the Breakthrough Prize in Life Sciences, 2015 (TBC)</p>
20:00 – 20:50	<p><b>THE PANDEMIC AND A WAY FORWARD FOR CENTRAL ASIA AND CAUCASUS</b></p> <p>Debates with distinguished experts on economic development strategies</p>

**Track:** New frontiers of science and medicine

**Track:** New frontiers of science and medicine

**Parallel discussion**

**Track:** Inclusive

economy and sustainability	Speakers: <b>Johannes Linn</b> , Former Vice President of the World Bank for Europe and Central Asia ( <b>confirmed</b> ) <b>Hans Holzacker</b> , Chief Economist at CAREC Institute (TBC)
<b><u>Parallel discussion</u></b>	
20:50 – 21:00	<b><i>Closing Day Three</i></b>  Concluding remarks on the discussed topics and issues

## October 4 - Sunday

Time (GMT +6)

14:45 – 15:00	<b><i>Opening of the Day Four</i></b>  Quick review of the upcoming sessions and activities of the day
15:00 – 16:00	<b>INPOLICY TALKS: WHY INCLUSIVE ECONOMY IS THE MOST IMPORTANT TOPIC FOR CENTRAL ASIA AND CAUCASUS?</b>  Debates with prominent experts on the significance of the inclusive policies in economics, technologies, finance, politics and social development.  Speakers: <b>Margulan Seissembai</b> , Founder of the Seimar Investment Group (TBC) <b>Eldar Abdrazakov</b> , Founder & CEO of the Centras Group (TBC) <b>Aidan Karibzhanov</b> , CEO Visor Holding (TBC)
<b>Track:</b> Inclusive economy and sustainability	
16:00 – 16:55	<b>HOW TO «ASSEMBLE» AND PROMOTE IDEAS?</b>  Workshop on effective strategies and techniques to present your ideas and projects
16:55 – 17:10	Exclusive interview with Nobel Prize winners and distinguished scientists
17:10 – 17:50	<b>THE IMPACT OF BIG DATA AND CONCERNS ABOUT DATA PRIVACY?</b>  Debates with Nobel Prize winners and prominent experts on the importance and strategies of ensuring safety and protection of personal data  Speakers: <b>Silvio Micali</b> , Professor of computer at MIT, recipient of the Turing Award, 2012 ( <b>confirmed</b> )
<b>Track:</b> Technologies changing the world	



	<p><b>Adi Shamir</b>, Professor of Applied mathematics and computer science at Weizmann Institute, recipient of the Turing Award, 2002 (TBC)</p> <p><b>Alan Kay</b>, President of the Viewpoints Research Institute, recipient of the Turing Award, 2003 (TBC)</p> <p><b>Barbara Liskov</b>, Professor and Head of the Programming Methodology Group at MIT, recipient of the Turing Award, 2008 (TBC)</p>
17:50 – 18:10	<p><b>Quiz tournament</b></p> <p>Online quiz tournament among teams from various universities on popular science topics</p>
18:10 – 18:50	<p><b>TRANSFORMING EDUCATION SYSTEM IN DIGITAL ERA</b></p> <p><b>Track:</b> The future of human capital</p> <p>Discussion with Nobel Prize winners, prominent experts and Central Asian and Caucasian University Rectors on the prospects of higher education in the region, pathways for innovative and collaborative development</p> <p><b>Chair: Sayasat Nurbek</b>, CEO BTS Education, Project Lead “Atlas of New Professions in Kazakhstan” (TBC)</p> <p>Speakers:  <b>Askhat Aimagambetov</b>, Minister of education and science of the Republic of Kazakhstan (TBC)  <b>Shigeo Katsu</b>, President of the Nazarbayev University (TBC)</p>
18:50 – 19:20	<p><b>APPLICATION OF BIOTECHNOLOGIES: WHAT ARE THE LIMITS?</b></p> <p><b>Track:</b> Technologies changing the world</p> <p>Debates with Nobel Prize winners and prominent experts on the recent developments in biotech and the extent to which they will be integrated in daily life</p> <p>Speakers:  <b>Michael Sheetz</b>, Director of Mechanomedicine Program at University of Texas Medical Branch, winner of the Albert Lasker Award for Basic Medical Research, 2012 (<b>confirmed</b>)</p>
19:20 – 20:10	<p><b>SPACETIME EXPLAINED: WHAT DO BLACK HOLES REVEAL?</b></p> <p><b>Track:</b> New frontiers of science and medicine</p> <p>Debates with Nobel Prize winners and prominent experts on black holes and the structure of spacetime</p> <p>Speakers:  <b>Juan Maldacena</b>, Professor at the Institute for Advanced Study, winner of the Breakthrough Prize in Fundamental Physics, 2012 (<b>confirmed</b>)  <b>Alexei Kitaev</b>, Professor of Physics at California Institute of Technology, of the Fundamental Physics Prize, 2012 (TBC)  <b>Charles Bennett</b>, Gilman Scholar at Johns Hopkins University, winner of the Breakthrough Prize in Fundamental Physics, 2018 (TBC)</p>
20:10 – 20:50	<p><b>KNOW YOUR MIND: NOVEL APPROACHES TO STUDYING</b></p>

**Track:** New  
frontiers of  
science and  
medicine

## HUMAN BRAIN

Debates with Nobel Prize winners and prominent experts on new interdisciplinary methods in neuroscience and their implications

Speakers:

**Cornelia Bargmann**, Professor at the Rockefeller University, recipient of the Kavli Prize, 2013 (TBC)

**Karl Deisseroth**, Professor of Bioengineering and of Psychiatry and Behavioral Sciences at Stanford University, winner of the Breakthrough Prize in Life Sciences, 2016 (TBC)

20:50 – 21:10

*Closing Ceremony of the Inaugural Central Asia Nobel Fest*



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