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31<sup>st</sup> Winter Course

**Director of the School: Carlo Schaerf** (*ISODARCO, Rome, Italy*)

**Directors of the Course: Francesca Giovannini** (*Committee on International Security Studies, American Academy of Arts and Sciences, Cambridge, MA, USA*)

**Steven Miller** (*Belfer Center, Harvard University, Cambridge, MA, USA*)

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## **THE EVOLVING NUCLEAR ORDER: NEW TECHNOLOGY AND NUCLEAR RISK ANDALO (TRENTO), ITALY – 7-14 JANUARY 2018**

Advances in robotics, artificial intelligence, data processing, geospatial analysis, and other technologies are primed to transform every aspect of human life including nuclear deterrence. With every nuclear-armed state investing in nuclear and

conventional modernization we are at the cusp of a new arms race. How do we manage nuclear risk in a world where the drivers of military advantage, from cyber to automation, are dual use and only partially controlled by governments? What effects will technological change have on the existing nuclear order? How can we assess

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the impact, whether positive or negative, of new technological developments and how do we discriminate between serious challenges and minor problems? What happens when technological uncertainty intersects with political crises in Eastern Europe, the Korean peninsula, the Taiwan straits, the Middle East or South Asia? What can we do to mitigate risks in a new nuclear era where old rules may not apply?

### **Principal Lecturers**

**William Alberque**, Head, Arms Control and Coordination Section, NATO, Brussels, Belgium

**Alexei Arbatov**, Institute of World Economy and International Relations, IMEMO, Moscow, Russia

**Nadia Arbatova**, Institute of World Economy and International Relations, IMEMO, Moscow, Russia

**Sarah Kreps**, Cornell University, Ithaca, NY, USA

**Martin Malin**, Project on Managing the Atom, Harvard Kennedy School, Cambridge, MA, USA

**George Nacouzi**, Senior Engineer, RAND Corporation, Santa Monica, CA, USA

**Benoit Pelopidas**, Associate Professor, Sciences Po, Paris, France

**Frank Sauer**, Bundeswehr University, Munich, Germany

**Manpreet Sethi**, Nuclear Security Project, Centre for Air Power Studies, New Delhi, India

**Scott Smitson**, Strategist, The Joint Staff, The Pentagon, Washington, DC, USA

**Behnam Taebi**, Associate professor of philosophy, Delft University of Technology, The Netherlands

**Tong Zhao**, Nuclear Policy Program, Carnegie-Tsinghua Center for Global Policy, Beijing, China

**Beyza Unal**, Research Fellow, Nuclear Weapons Policy, Chatham House, London, UK

**Tristan Volpe**, Assistant Professor at the Naval Postgraduate School, Monterey, CA, USA

**Heather Williams**, Lecturer in the Defence Studies Department, King's College, London, UK

Confirmations are expected from other eminent scholars who have been invited to lecture at the course.