



Fifth PSSI Space Security Conference
Evolution of the Counterspace Threat
and Strengthening of International Space Partnerships
June 9–11, 2019 Prague, Czech Republic

CONFERENCE PROGRAM

SUNDAY, 9 JUNE 2019

Venue: Golden Well Restaurant (Terasa U Zlaté Studně), U Zlaté Studně 166/4, Prague 1

18:00–20:00 **OPENING RECEPTION** (by special invitation only)

Opening Remarks:

Roger W. Robinson Jr., Chairman and Co-Founder, Prague Security Studies Institute

Peter Martinez, Executive Director, Secure World Foundation

MONDAY, 10 JUNE 2019

Venue: Ministry of Foreign Affairs of the Czech Republic, Czernin Palace, Loretánské nám. 5, Prague 1

8:30–9:00 **COFFEE AND REGISTRATION**

9:00–9:30 **OPENING SESSION**

Welcome Remarks:

Roger W. Robinson Jr., PSSI Chairman and Co-Founder, Prague Security Studies Institute

Peter Martinez, Executive Director, Secure World Foundation

Opening Remarks:

Aleš Chmelař, Deputy Minister of Foreign Affairs for European Issues, Czech Republic

9:30–10:45 **PANEL 1: EVOLUTION OF THE COUNTERSPACE THREAT**

The space domain is rapidly evolving. An increasing number of countries and commercial actors are getting involved in space, resulting in more innovation and benefits on Earth, but also more congestion and competition in space. From a security perspective, an increasing number of countries are looking to use space to enhance their military capabilities and advance their strategic agendas. The growing use of, and reliance on, space for national security has also led more countries to consider the development of their own counterspace capabilities that can be used to deceive, disrupt, deny, degrade, or destroy space systems. This has the potential to heighten tensions on the ground that extend into space, or vice versa. Panelists will discuss the current status of counterspace capabilities globally, highlighting recent trends and predicting what the domain could look like in the relatively near-term. Finally, the panel will seek to address the most promising mitigation measures.

Moderator: Victoria Samson, Washington Office Director, Secure World Foundation

Panelists:

Jamie M. Morin, Vice President, Defense Systems Operations, Center for Space Policy and Strategy, The Aerospace Corporation

Martina Šmuclerová, Senior Fellow, Prague Security Studies Institute

Shuzo Takada, Director-General, National Space Policy Secretariat, Cabinet Office, Japan

Ashley J. Tellis, Senior Fellow, Carnegie Endowment for International Peace

10:45–11:00

COFFEE BREAK

11:00–12:30

PANEL 2: SPACE DOMAIN AWARENESS AND HYBRID OPERATIONS

The introduction of Offensive Cyber and Counterspace operations into the arena of international conflict has led to situations where activities short of military action are more easily employed by malign actors to accomplish strategic goals without the fear of clear attribution. To an ever-expanding degree, these tools are being used in combination with more traditional forms of non-military activities to coerce behavior that would have previously required more overt aggression. The difference here is in the ability to use non-kinetic cyber and other 'grey zone' actions. Given these realities, what role does space domain awareness activities play in this dynamic, and what new or enhanced capabilities are required to deter or respond to this type of space-related hybrid warfare?

Moderator: Douglas L. Loverro, former U.S. Deputy Assistant Secretary of Defense for Space Policy

Panelists:

Peter L. Hays, Associate Director, Eisenhower Center for Space and Defense Studies

Travis Langster, Vice President, Space Situational Awareness Business, Analytical Graphics, Inc. (AGI)

Pascal Faucher, EUSST Chairman and Security and Defense Officer, French Space Agency (CNES)

Dana J. Johnson, Director, International Outreach and Policy, Office of the Under Secretary of Defense (Research and Engineering), U.S. Department of Defense

12:30–13:00

SPECIAL ADDRESS:

Kai-Uwe Schrogl, Chief Strategy Officer, seconded to the German Federal Ministry for Economic Affairs and Energy, European Space Agency (ESA)

Carine Claeys, Special Envoy for Space (acting), Space Task Force, European External Action Service (EEAS)

Introduced by:

Václav Kobera, Director, Intelligent Transport Systems, Space Activities and R&D Department, Ministry of Transport of the Czech Republic

13:00–13:45

BUFFET LUNCHEON

Keynote Remarks: Toshihiko Kasahara, Deputy Director, Cabinet Satellite Intelligence Center (CSICE), Japan

Introduced by:

Peter Martinez, Executive Director, Secure World Foundation (SWF)

14:00–15:30

PANEL 3: SPACE RESILIENCE AND RISK MITIGATION

Resilient architecture should be able to support all necessary mission functions, including during hostile actions or across a range of adverse scenarios, conditions, and threats. It should be able to leverage cross-domain or alternative capabilities (government, commercial or partner). To what extent are our space architectures resilient today and what is missing in our space policies to ensure space resiliency in the long-term?

Moderator: Jean-Jacques Tortora, Director, European Space Policy Institute (ESPI)

Panelists:

Carine Claeys, Special Envoy for Space (acting), Space Task Force, European External Action Service (EEAS)

Kevin Mcloughlin, Head of Space Security, UK Space Agency

Hiroshi Koyama, Fellow, Electronic Systems Group, Mitsubishi Electric Corporation

Tanja E. Zegers, Policy Officer, DG for Internal Market, Industry, Entrepreneurship and SME – DG GROW



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15:30–15:45 **COFFEE BREAK**

15:45 – 17:30 **PANEL 4: INTERNATIONAL SPACE PARTNERSHIPS: COMPETITION OR COLLABORATION?**
Absent strengthened international space cooperation, civilian and commercial space assets, services and applications will likely be at considerably greater risk due to the increasingly competitive and contested space environment. At the same time, the U.S. national space strategy puts America first, Europe calls for greater strategic autonomy, including in space, and Japan recognizes a national need to develop its own strategic space capabilities. This begs the question of how these high-level strategic national security initiatives affect allied space security cooperation operationally. This is especially relevant as our competitors, notably China and Russia, are undertaking to challenge the current international governance regime, including through forging their brand of international space partnerships, accompanied by an effort to gain technological superiority. This panel will discuss options for strengthening trilateral efforts to establish more robust global space partnerships and space norms based on transparency, the rule of law and recognition that a heated competition is well underway.

Moderator: Jana Robinson, Space Security Program Director, Prague Security Studies Institute

Panelists:

Regina Peldszus, Senior Policy Officer, Department of Space Situational Awareness, DLR Space Administration

John P. Stopher, Principal Assistant to the Secretary of the U.S. Air Force for Space

Ajey Lele, Senior Fellow, Institute for Defence Studies and Analyses (IDSA), India

Eric Desautels, Director, Office of Emerging Security Challenges, Bureau of Arms Control, Verification and Compliance, U.S. Department of State

19:15 **GALA DINNER (BY SPECIAL INVITATION ONLY)**

Venue: Mlýnec Restaurant, Novotného lávka 9, Prague 1

Keynote Speaker: Lt Gen David D. Thompson, Vice Commander, U.S. Air Force Space Command

Introduced by: Roger W. Robinson Jr., Chairman and Co-Founder, Prague Security Studies Institute

TUESDAY, 11 JUNE 2019

Venue: Ministry of Foreign Affairs of the Czech Republic, Czernin Palace, Loretánské nám. 5, Prague 1

7:30–8:00 **COFFEE AND REGISTRATION**

8:00–8:45 **OPENING SESSION**

Opening Remarks:

Andrea L. Thompson, Under Secretary for Arms Control and International Security, U.S. Department of State

Introduced by: Jana Robinson, Space Security Program Director, Prague Security Studies Institute

8:45–10:15 **PANEL 5: DETERRENCE AND SPACE CRISIS MANAGEMENT**

As referenced in panel 2 on "Space Domain Awareness and Hybrid Operations", the employment of hybrid operations for the achievement of strategic goals without the fear of clear attribution is becoming an increasingly popular counterspace go-to option. Is it past time to expand space-related deterrence measures, including pre-crisis communication of specific consequences that will befall a space-faring nation that engages in cyberattacks, jamming/spoofing, dangerous proximity operations and other forms of activities in this 'grey zone'? Is there an allied crisis management architecture in place that can be instantly activated in the event of a serious denial of services or damage to space assets? What should be the thresholds for triggering a crisis management response? The goal of this panel is to address these and related issues.

Moderator: Steve Eisenhart, Senior Vice-President Strategic & International Affairs, The Space Foundation

Panelists:

Brig Gen Michel Friedling, Commander, Joint Space Command, Ministry of Defence, France

Heidi Robinson, Director for Engagement, Office of Deputy Assistant Secretary of Defense for Space Policy, U.S. Department of Defense

Cassandra Steer, Interim Executive Director, Women in International Security, Canada

Lt Col Manfred Schwiebert, German Ministry of Defence

10:15–10:45 **COFFEE BREAK**

10:45–12:30 **PANEL 6: PRIVATE SECTOR ROLE IN SPACE SECURITY**

Many in the space community are excited about the prospects for commercialization of space. Traditional players, as well as new private companies, seek to position themselves to provide commercial services beyond telecommunications, ranging from launch, Earth observation, SSA, on-orbit servicing, to mining on celestial bodies. This panel will discuss the evolving role of the private sector in space security. It will also probe Western space industry competitiveness globally, particularly vis-a-vis the predatory commercial/strategic practices of non-democratic space powers collecting their brand of international space partnerships. Finally, it will assess its status in supporting allied militaries (e.g. in resilience and deterrence).

Moderator: John B. Sheldon, Chairman, ThorGroup GmbH

Panelists:

Kevin O'Connell, Director of the Office of Space Commerce, U.S. Department of Commerce

Bhavya Lal, Science and Technology Policy Institute, Institute for Defense Analyses (IDA)

Masahiro Atsumi, Vice President & Senior General Manager Space Systems Division, Mitsubishi Heavy Industries

Agnieszka Lukaszczyk, Senior Director, European Affairs, Planet Labs, Inc.

12:30–13:30 **CLOSING LUNCHEON**