

**Contributors** (as of December 2021)

**Mr. Bryan Clark** is a senior fellow and Director of the Center for Defense Concepts and Technology at Hudson Institute. He leads studies there in naval operations and fleet architecture, electronic warfare, autonomous systems, military competitions, 5G telecommunications, and command and control. Before joining Hudson Institute, Bryan was a senior fellow at the Center for Strategic and Budgetary Assessments (CSBA), where he led studies for the DoD Office of Net Assessment, Office of the Secretary of Defense, and Defense Advanced Research Projects Agency on new technologies and the future of warfare. Prior to joining CSBA, he was special assistant to the Chief of Naval Operations and director of his Commander's Action Group, where he led development of Navy strategy and implemented new initiatives in electromagnetic spectrum operations, undersea warfare, expeditionary operations, and personnel and readiness management. During his 25-year Navy career, Bryan was an enlisted and officer submariner, serving in afloat and ashore submarine operational and training assignments including tours as chief engineer of two nuclear submarines and operations officer at the Navy's nuclear power training unit. He has a Master of Science degree in national security studies from the U.S. National War College, a Bachelor of Science degree in chemistry and philosophy from the University of Idaho and conducted graduate research in chemistry at the University of Washington. .

**Dr. Fujita Motonobu** is a policy coordinator of the technology policy office at the Acquisition Technology and Logistics Agency (ATLA), MOD. He specializes in mid-to-long term planning on applied researches for defense equipment and technology strategy on defense science. His recent work was to draft "R&D vision toward realization of Multi-Domain Defense Force and Beyond," which was published by MOD in August 2019. Prior to his current assignment, as the chief technology strategist, he drafted the R&D vision at the planning office of ATLA. From 2013 to 2017, he led an applied research project on high-power microwave systems. From 2011 to 2013, as a research scientist of Department of Guided Weapon Systems Development, Technical Research and Development Institute (TRDI), he worked as a project team member of SM-3 Block IIA Cooperative Development (SCD) project. He supported project management activities on the development of missile components. His first carrier in MOD was a research scientist. He was involved in applied research and ground tests on missile components such as warheads and radio-proximity fuzes and safety devices under development from 2006 to 2011. His doctorate is in Information Physics and Computing from the

University of Tokyo, where he wrote a thesis on power-performance optimization on microprocessors with software-controlled on-chip memories.

**Dr. Tai Ming Cheung** is director of the Institute on Global Conflict and Cooperation <<http://igcc.ucsd.edu/>> at the University of California, San Diego in La Jolla. Among the areas of his research focus include China's efforts to become a world-class science and technology power, and the relationship between geo-economics, innovation, and national security. Dr. Cheung is also a professor at the School of Global Policy and Strategy at UC San Diego. Dr. Cheung is a long-time analyst of Chinese and East Asian defense and national security affairs, especially defense economic, industrial and science and technological issues. He is the author of *Fortifying China: The Struggle to Build a Modern Defense Economy* (Cornell University Press, 2009), editor of *Forging China's Military Might: A New Framework for Assessing Innovation* (Johns Hopkins University Press, 2014), co-editor of *The Gathering Pacific Storm: Emerging US-China Strategic Competition in Defense Technological and Industrial Development* (Cambria Press, 2018), and author of *Innovate to Dominate: The Rise of the Chinese Techno-Security State* (Cornell University Press, 2022). He was based Hong Kong, China, and Japan from the mid-1980s to 2002 covering political, economic, and strategic developments in Greater China and East Asia. Dr. Cheung has a PhD in War Studies from King's College, London.

**Dr. Sunami Atsushi** is the President of Sasakawa Peace Foundation (SPF), Executive Advisor to the President and Visiting Professor, National Graduate Institute for Policy Studies (GRIPS); Special Fellow, Asia Pacific Foundation of Canada; and Visiting Professor, Research Organization for Nano & Life Innovation, Waseda University. He conducts research in maritime policy as well as science, technology, and innovation policy. He has served as Co-Chair of the Japanese National Commission for UNESCO, Ministry of Education, Culture, Sports, Science and Technology; Member of the Advisory Panel on Economic Security Legislation, Cabinet Secretariat; and Member of the Basic Policy Subcommittee, Committee on the National Space Policy, Cabinet Office. He graduated with a PhD in Political Science and a Master of International Affairs (MIA) from Columbia University, and with a B.S. in Foreign Service (BSFS) from Georgetown University. His recent publications and articles include "China as a Hegemonic Power over Advanced Technology," *International Affairs* (February 2022); "Key to the Sustainable Development of the Indo-Pacific," *International Development*

*Journal* (June 2021); and *Research on Ocean Issues in East Asia : Towards a New Era in Coordination between Japan and China* (April 2020).

**Dr. Malcolm Davis** joined ASPI as a Senior Analyst in Defence Strategy and Capability in January 2016. Prior to this he was a Post-Doctoral Research Fellow in China-Western Relations with the Faculty of Society and Design at Bond University from March 2012 to January 2016. He has worked with the Department of Defence, both in Navy Headquarters in the Strategy and Force Structure area, and with Strategic Policy Division in the Strategic Policy Guidance from November 2007 to March 2012. Prior to this appointment he was a Lecturer in Defence Studies with Kings College London at the Joint Services Command and Staff College, in Shrivenham, UK, from June 2000 to October 2007. He holds a PhD in Strategic Studies from the University of Hull as well as two Masters degrees in Strategic Studies, including from the Australian National University's Strategic and Defence Studies Centre. His main research focus is on defence strategy and capability development, space policy, military technology, and the future of warfare.

**Dr. Michael Raska** is an Assistant Professor and Coordinator of the Military Transformations Programme at the S. Rajaratnam School of International Studies (RSIS), Nanyang Technological University in Singapore. His research interests focus on defence and military innovation, emerging technologies and strategic competition, and cyber warfare in East Asia. He is the author of *Military Innovation and Small States: Creating Reverse Asymmetry* (Routledge, 2016) and co-editor of *Defence Innovation and the 4th Industrial Revolution: Security Challenges, Emerging Technologies, and Military Implications* (Routledge, 2022), and *Security, Strategy, and Military Change in the 21st Century: Cross-regional Perspectives* (Routledge, 2015). His academic publications include articles in journals such as the *Journal of Strategic Studies*, *Strategic Studies Quarterly*, *PRISM - Journal of Complex Operations*, *Journal of Indo-Pacific Affairs*, and *Sirius - Journal of Strategic Analysis*. He has contributed chapters in edited volumes in collaboration with the Norwegian Institute for Defence Studies (IFS), International Institute for Strategic Studies (IISS), European Union Institute for Security Studies (EUISS), Center for New American Security (CNAS), University of California Institute on Global Conflict and Cooperation (IGCC), and Swedish Defence University (SEDU). He holds a PhD (2012) from the Lee Kuan Yew School of Public Policy, National University of Singapore, where he was a recipient of the NUS President's Graduate Fellowship.

**Dr. Ivan V. Danilin** is the Head of Science and Innovation Department at Primakov National Research Institute of World Economy and International Relations (IMEMO). He is also the Associate Professor at MGIMO University and the lecturer at several other prominent Russian research universities. In 2010-2015 Dr. Danilin served as a part-timer at innovation departments of biggest Russian power sector companies – ROSATOM and ROSSETI. Since 2010s he took part in the discussions and development of all major Russian innovation policy measures and documents, including the Russian National Technology Initiative, Strategy for Science and Technological Development of the Russian Federation, Concept for the International Science and Technology Cooperation of the Russian Federation. Dr. Danilin serves on board of several federal and corporate expert bodies, including that of the Russian Ministry of Science and Higher Education and State Duma (lower chamber of Russian Parliament). His current research focuses on economic aspects of the digital transformation and associate governance issues and the U.S.-China global technology conflict (including implications for the international high-tech markets and IR). He is author of more than 100 academic publications and more than 20 analytic reports.

## **NIDS International Symposium on Security Affairs**

### **Technological Innovation and Security: The Impact on the Strategic Environment in East Asia**

Wednesday, December 8, 2021 Online

#### **9:00-11:00 Session 1: Perspectives of the U.S., Japan, and China**

Chair: **Mr. Hyodo Shinji** (Director, Policy Studies Department, NIDS)

Moderator: **Col. Imafuku Hirofumi** (Head, Military Strategy Division, NIDS)

Speakers:

**Mr. Bryan Clark** (Senior Fellow & Director, Center for Defense Concepts and Technology, Hudson Institute)

**Dr. Fujita Motonobu** (Policy Coordinator, Technology Policy Office, Technology Strategy Division, Department of Technology Strategy, Acquisition, Technology and Logistics Agency [ATLA]; Visiting Fellow, RAND Center for Asia Pacific Policy [CAPP])

**Dr. Tai Ming Cheung** (Director, Institute on Global Conflict and Cooperation [IGCC], University of California)

Discussant: **Mr. Iida Masafumi** (Head, America, Europe, and Russia Division, NIDS)

#### **11:10-12:00 Keynote Speech**

**Dr. Sunami Atsushi** (President, Sasakawa Peace Foundation [SPF]; Executive Advisor to the President & Director, Science for RE-designing Science, Technology and Innovation Policy [SciREX] Center, National Graduate Institute for Policy Studies [GRIPS])

#### **14:00-16:00 Session 2: Perspectives of Australia, Singapore, and Russia**

Chair: **Mr. Hyodo Shinji** (Director, Policy Studies Department, NIDS)

Moderator: **Col. Shimazu Takaharu** (Senior Fellow, Military Strategy Division, NIDS)

Speakers:

**Dr. Malcolm Davis** (Senior Analyst, Australian Strategic Policy Institute [ASPI])

**Dr. Michael Raska** (Assistant Professor, S. Rajaratnam School of International Studies [RSIS], Nanyang Technological University)

**Dr. Ivan V. Danilin** (Head, Department of Science and Innovation, Institute of World Economy and International Relations [IMEMO], Russian Academy of Sciences)

Discussant: **Mr. Akimoto Shigeki** (Senior Fellow, Policy Simulation Division, NIDS)